December 20, 2024

ADDENDUM NO. 1

To Prospective Bidders and Other On:

FY 2025 CAPITAL IMPROVEMENT PROGRAM FEDERAL AID PROJECT NUMBER 69A36523420000RLDMA

EAST DEERFIELD YARD INTERMODAL PROJECT

Transmitting revisions to the contract documents as follows:

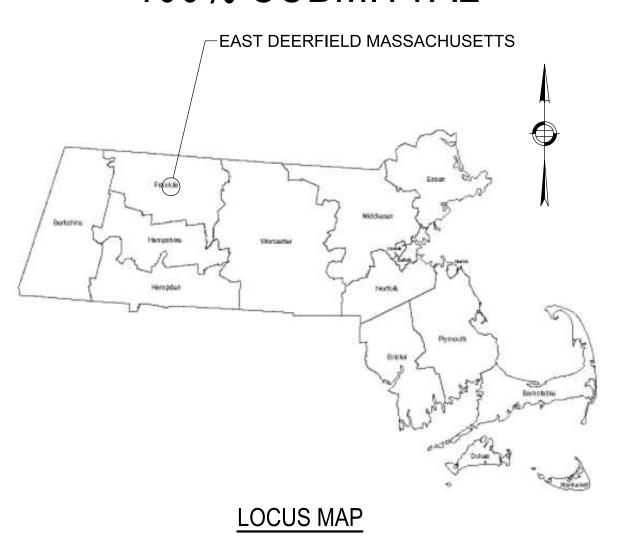
Plan Sheets

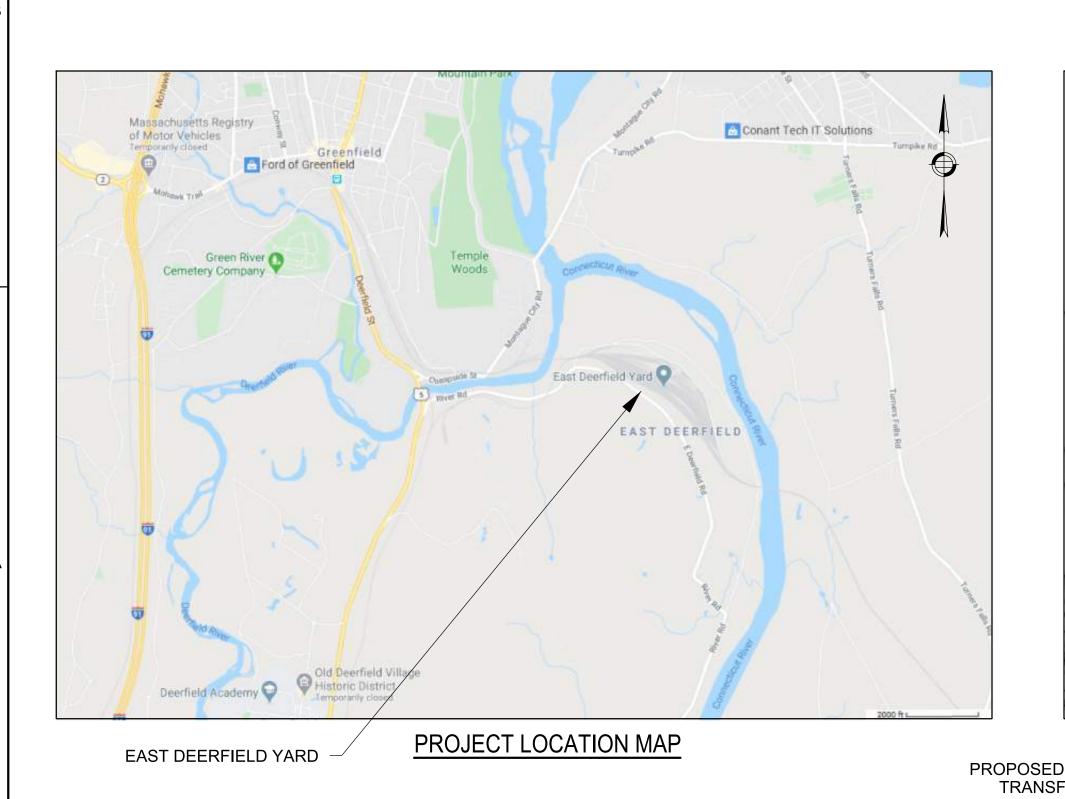
Edits are circled with callouts. Page G-0301, Page 5 of 44, Updated quantities to match the specification package for turnout installations/rehabilitations, track feet disposal, crosstie disposal, furnish derails, and note clarifying the scope of rehabilitations. Page K-0002, Page 8 of 44, Updated plan sheet to match specifications for a new installation of a LH #10 115RE turnout on R2B.

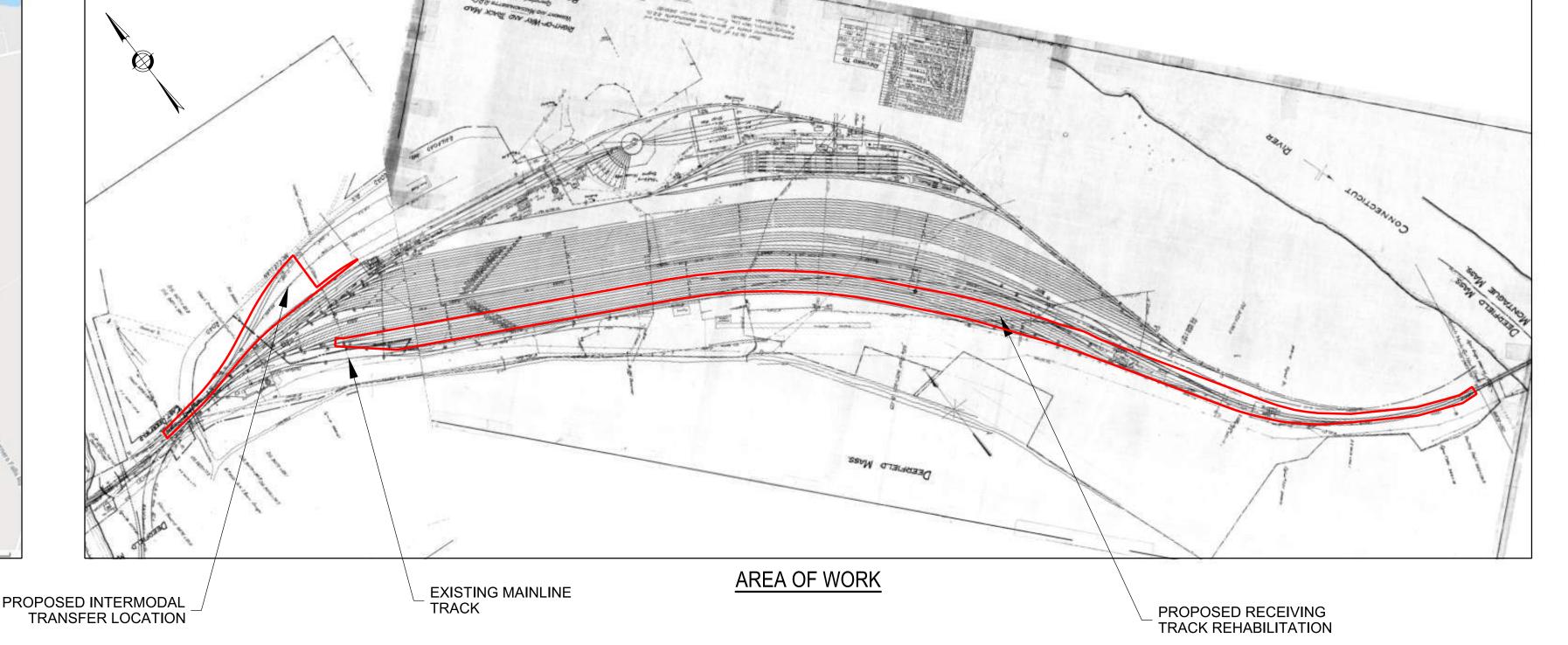
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION RAIL & TRANSIT DIVISION

EAST DEERFIELD YARD - INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT PROJECT LOCATION: EAST DEERFIELD, MA

ISSUE FOR CONSTRUCTION 100% SUBMITTAL









CONSULTANTS

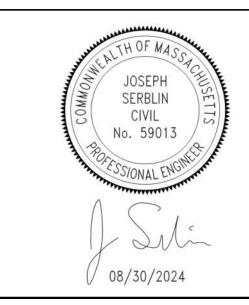


Harris Miller Miller & Hanson Inc. 700 District Avenue, Ste 800 Burlington, MA 01803 781-229-0707

> Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027

413-529-1700

SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

0 8/28/24 ISSUED FOR CONSTRUCTION MA
MARK DATE DESCRIPTION BY
ISSUE BLOCK

PROJECT NO.: 4020274

DESIGNED BY: MAV

DRAWN BY: MAV

CHECKED BY: JSS

APPROVED BY: PJB

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DATE: 8/28/2024

COVER SHEET

G-0001 1 OF 44

		EAST DEERFIELD YARD INTERMODAL IMPROVEMENTS PROJECT
PLAN NO.	SHEET	DRAWING NAME
1	G-0001	COVER SHEET
2	G-0101	DRAWING INDEX
3	G-0201	GENERAL ABBREVIATIONS
4	G-0202	GEOMETRIC EQUATIONS
5	G-0301	GENERAL NOTES
6	C-0401	INTERMODAL YARD SITE PLAN
7	K-0001	EXISTING CONDITIONS - SHEET 1 OF 1
8	K-0002	RECEIVING TRACKS TO BE REHABILITATED - SHEET 1 OF 2
9	K-0003	RECEIVING TRACKS TO BE REHABILITATED - SHEET 2 OF 2
10	K-0004	TRACK GEOMETRY DATA - SHEET 1 OF 3
11	K-0005	TRACK GEOMETRY DATA - SHEET 2 OF 3
12	K-0006	TRACK GEOMETRY DATA - SHEET 3 OF 3
13	K-0007	YARD STATIONING SYSTEM SHEET - SHEET 1 OF 1
14	K-0008	TYPICAL SECTIONS - SHEET 1 OF 3
15	K-0009	TYPICAL SECTIONS - SHEET 2 OF 3
16	K-0010	TYPICAL SECTIONS - SHEET 3 OF 3
17	K-0100	YARD PLAN AND PROFILE - SHEET 1 OF 6 - MAIN TRACK 2
18	K-0101	YARD PLAN AND PROFILE - SHEET 2 OF 6 - NORTH TOWER TRACK
19	K-0102	YARD PLAN AND PROFILE - SHEET 3 OF 6 - SOUTH TOWER TRACK
20	K-0103	YARD PLAN AND PROFILE - SHEET 4 OF 6 - FARM BUREAU 1
21	K-0104	YARD PLAN AND PROFILE - SHEET 5 OF 6 - FARM BUREAU 2
22	K-0105	YARD PLAN AND PROFILE - SHEET 6 OF 6 - CHUCKY TRACK
23	K-0106	CROSS SECTIONS - SHEET 1 OF 8 - MAIN TRACK 2
24	K-0107	CROSS SECTIONS - SHEET 2 OF 8 - MAIN TRACK 2
25	K-0108	CROSS SECTIONS - SHEET 3 OF 8 - NORTH TOWER TRACK
26	K-0109	CROSS SECTIONS - SHEET 4 OF 8 - NORTH TOWER TRACK
27	K-0110	CROSS SECTIONS - SHEET 5 OF 8 - NORTH TOWER TRACK
28	K-0111	CROSS SECTIONS - SHEET 6 OF 8 - NORTH TOWER TRACK
29	K-0112	CROSS SECTIONS - SHEET 7 OF 8 - FARM BUREAU 2
30	K-0113	CROSS SECTIONS - SHEET 8 OF 8 - FARM BUREAU 2
31	K-0200	TYPICAL FULL DEPTH TRACK SECTIONS FOR SINGLE TRACK
32	K-0201	MBTA DRAWING 1000 - TYPICAL ROADBED SECTION DOUBLE & SINGLE TRACK ON TANGENT
33	K-0202	MBTA DRAWING 1002 - TYPICAL ROADBED SECTION DOUBLE & SINGLE TRACK ON CURVE
34	K-0203	RUBBER RAIL SEAL AND BITUMINOUS CONCRETE CROSSING DETAIL
35	K-0204	RUBBER RAIL SEAL AND BALLASTED TRACK
36	K-0205	MBTA DRAWING 3108 - TYPICAL SECTION RUBBER RAIL SEAL CROSSING
37	K-0206	MBTA DRAWING 2082 - NO 8. WELDED TURNOUT TIE AND RAIL LAYOUT
38	K-0207	MBTA DRAWING 2102 - NO 10. WELDED TURNOUT TIE AND RAIL LAYOUT
39	K-0208	WESTERN-CULLEN HAYES MODEL 430F CAR STOP DETAIL
40	K-0209	MBTA DRAWING 1104 - TIE SPACING AND SPIKING PATTERNS
41	K-0210	MBTA DRAWING 1232 - RAIL ANCHORING DETAILS JOINTED AND CWR TRACK
42	K-0211	MBTA DRAWING 3000 - HINGED BLOCK DERAIL
12	14 00 10	

MBTA DRAWING 3004 - SLIDING BLOCK DERAIL

COMPOST FILTER TUBE DETAIL

43

44

K-0212

K-0213



CONSULTANTS



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> Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027 413-529-1700

> > SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD
INTERMODAL AND RECEIVING
YARD IMPROVEMENTS PROJECT

0	8/28/24	ISSUED FOR CONSTRUCTION				
MARK	DATE	DESCRIPTION				
ISSUE BLOCK						

PROJECT NO.:	4020274
DESIGNED BY:	MAV
DRAWN BY:	MAV
CHECKED BY:	JSS
APPROVED BY:	PJB
COPVRIGHT: STV IN	CORPORATED

DATE: 8/28/2024

DRAWING INDEX

G-0101 2 OF 44

	GENERAL	ABBREVIATION	S
BP	BUMPING POST	O/S	OFFSET
3IT.	BITUMINOUS	P.C.	POINT OF CURVE
BRAB	BRIDGE - ABUTMENT BOTTOM	P.I.	POINT OF HORIZONTAL INTERSECTION
C.S.	CURVE SPIRAL POINT	P.I.c	POINT OF INTERSECTION OF CIRCULAR CURVE TANGENTS
CC	CENTER OF CURVE	P.I.s	POINT OF INTERSECTION OF SPIRAL CURVE TANGENTS
CL	CENTERLINE	P.O.B.	POINT OF BEGINNING
CT	CHUCKY TRACK	P.O.E.	POINT OF END
D	DERAIL	P.O.L.	POINT ON LINE
 Dc	DEGREE OF CURVE	P.S.	POINT OF SWITCH
DET	DETAIL	P.T.	POINT OF TANGENT
DIA	DIAMETER	PGL	PROFILE GRADE LINE
E	EXTERNAL ORDINATE OF HORIZONTAL CURVE	POTO	POWER OPERATED TURNOUT
<u>-</u> E	EASTING	PROP.	PROPOSED
	EXTERNAL DISTANCE FROM P.I.c	PVC	POINT OF VERTICAL CURVATURE
<u>Ес</u> Еа	ACTUAL SUPERELEVATION	PVI	POINT OF VERTICAL INTERSECTION
	EACH	PVT	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENT
EA Eo	EQUILIBRIUM SUPERELEVATION	r	RATE OF CHANGE
Ee El az El EV	ELEVATION	l D	
EL or ELEV		R	RADIUS
Eu	UNBALANCED SUPERELEVATION	Rd.	ROAD
EX.	EXISTING	REHAB	REHABILIATE
FB1	FARM BUREAU 1	RELOC	RELOCATED
FB2 	FARM BUREAU 2	REM	REMOVE
FT 	FOOT/FEET	REMOD	REMODEL
GR	GRADE	RET	RETAIN/RETAINING
GWA	GUY WIRE ANCHOR	RH	RIGHT HAND
<u>H</u>	HEIGHT	RHTO	RIGHT HAND TURNOUT
HP	HIGH POINT	RO	RIGHT OFFSET
HTTO	HAND OPERATED TURNOUT	ROW	RIGHT OF WAY
lc	CENTRAL ANGLE OF CIRCULAR CURVE	RR	RAILROAD
INV	INVERT	RT	RIGHT
JT	JOINT	S.C.	SPIRAL CURVE POINT
Lc	LENGTH OF CURVE	S.T.	SPIRAL TANGENT POINT
LF	LINEAR FOOT	SE	SUPERELEVATION
LH	LEFT HAND	SF	SQUARE FEET
LHTO	LEFT HAND TURNOUT	SHT	SHEET
LLT	LAST LONG TIE	STA	STATION
LO	LEFT OFFSET	STT	SOUTH TOWER TRACK
LOG	LIMITS OF GRADING	Т	TANGENT
Ls	LENGTH OF SPIRAL	Тс	TANGENT LENGTH OF CIRCULAR CURVE
Lt	TANGENT LENGTH	T.S.	TANGENT SPIRAL POINT
LT	LEFT	T/R or TOR	TOP OF RAIL
LVC	LENGTH OF VERTICAL CURVE	ТО	TURNOUT
LVL	LEVEL	TRK	TRACK
MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION	TT	TOP OF TIE
MBTA	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	TYP	TYPICAL
MHB	MASSACHUSETTS HIGHWAY BOUND	UP/UPL	UTILITY POLE
MHD	MASSACHUSETTS HIGHWAY DEPARTMENT	V	DESIGN SPEED
MOW	MAINTENANCE OF WAY	VC	VERTICAL CURVE
N	NORTH/NORTHING	VERT	VERTICAL CLEARANCE
NO.	NUMBER	X-OVER	CROSSOVER
NO.	NODTH TOMED TRACK	<u> </u>	ON OOO VEIV

NORTH TOWER TRACK



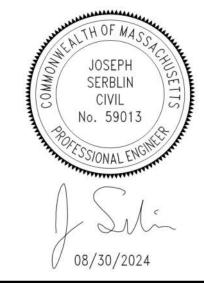
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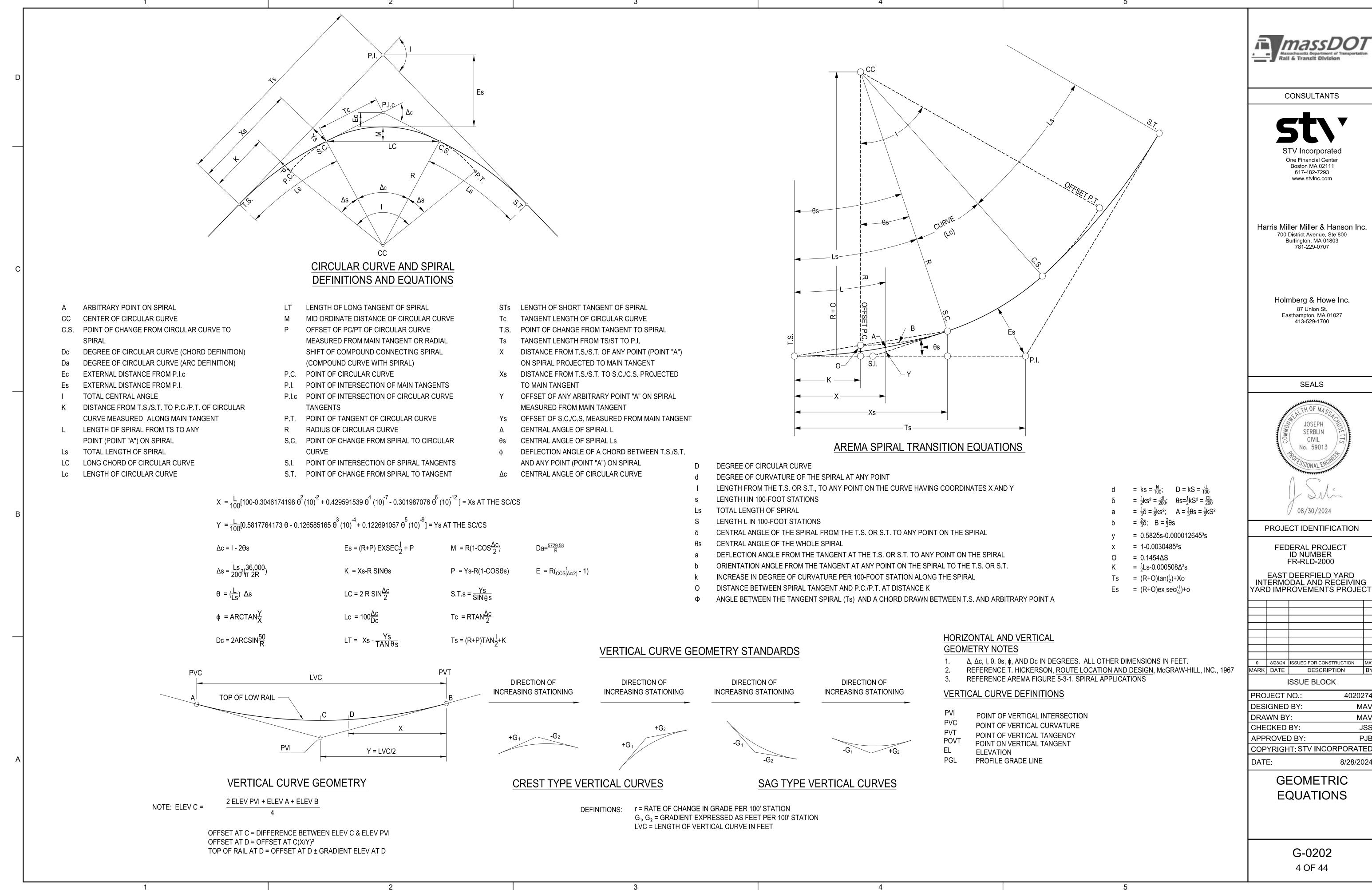
PROJECT NO.:	4020274
DESIGNED BY:	MAV
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CHECKED BY:	JSS
APPROVED BY:	PJB
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GENERAL ABBREVIATIONS

8/28/2024

DATE:

G-0201 3 OF 44



in massDO1

0 8/28/24 ISSUED FOR CONSTRUCTION MAY

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- 1. EXISTING CONDITIONS ARE BASED ON AVAILABLE EXISTING TOPOGRAPHIC PLAN AND SURVEY, PERFORMED BY HOLMBERG & HOWE, INC., JULY 2020.
- 2. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988. HORIZONTAL DATUM IS MA STATE PLANE COORDINATE SYSTEM BASED ON NORTH AMERICAN DATUM (NAD) OF 1983.
- 3. ALL DIMENSIONS, LOCATIONS AND ELEVATIONS OF KNOWN EXISTING STRUCTURES SHOWN ON CONTRACT DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- 4. CONTRACTOR SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS AND RECEIVE APPROVAL PRIOR TO FABRICATION OR DELIVERY OF MATERIALS TO THE SITE.
- 5. UNLESS INDICATED, DRAWINGS ARE NOT TO SCALE.
- 6. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.

B. DESIGN CODES, GUIDELINES, AND STANDARDS

THE TRACK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CODES, GUIDELINES, SPECIFICATIONS AND STANDARDS:

- 1. MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (MBTA) COMMUTER RAIL DESIGN STANDARDS MANUAL
- 2. MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (MBTA) BOOK OF STANDARD PLANS
- 3. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA) "MANUAL FOR RAILWAY ENGINEERING", AREMA 2017, WITH ALL CURRENT INTERIM REVISIONS (REFERRED TO HEREINAFTER AS AREMA).
- 4. MASSDOT MW-1 SPECIFICATIONS

C. CONSTRUCTION

1. THE CONTRACTOR SHALL OBTAIN AND BE COGNIZANT OF THE RAILROADS SAFETY RULES AND REGULATIONS AND CONDUCT HIS OPERATIONS IN STRICT ACCORDANCE WITH THE SAME. THE CONTRACTOR, IN ADDITION TO HIS OWN SAFETY RULES, MUST ABIDE BY PAN AM SOUTHERN'S RULES WHILE WORKING ON OR NEAR RAILROAD FACILITIES. THE CONTRACTOR MUST ALSO UNDERGO SAFETY TRAINING IN ACCORDANCE WITH PAN AM SOUTHERN AND FEDERAL RAILROAD ADMINISTRATION REQUIREMENTS PRIOR TO STARTING WORK

D. MISCELLANEOUS

- 1. DUE TO THE NATURE OF EXISTING CONDITIONS, THE EXACT EXTENT OF WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS, DIMENSIONS AND WORK QUANTITIES. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.
- 2. ALL CONSTRUCTION OPERATIONS, SUCH AS WORK AREAS USED FOR MATERIAL DELIVERY AND STORAGE, ACCESS TO AND FROM WORK AREAS, TIMING OF WORK, SPECIAL CONSIDERATIONS OF NOISY OPERATIONS, INTERRUPTION OF ELECTORAL SERVICES, ETC. SHALL BE COORDINATED WITH PAN AM SOUTHERN AND IN COMPLIANCE WITH LOCAL LAWS.
- 3. ALL WORK IS TO BE PERFORMED WITH CARE SO THAT MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF MASSDOT RAIL WILL NOT BE DAMAGED. IF ANY SUCH MATERIALS ARE DAMAGED, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO MASSDOT RAIL AT THE CONTRACTOR'S OWN EXPENSE.
- 4. THE CONTRACTOR SHALL SUBMIT TO MASSDOT RAIL AND PAN AM SOUTHERN THE PROPOSED METHOD OF WORK AND IDENTIFICATION OF EQUIPMENT TO BE USED, PRIOR TO START OF CONSTRUCTION.

E. TRACK WORK

- 1. THE CONTRACTOR SHALL ENTER INTO A SERVICE AGREEMENT WITH PAN AM SOUTHERN TO PROCURE RAILROAD FLAGGING FOR THE PROJECT
- 2. THE CONTRACTOR SHALL CONSTRUCT THE TRACK BED FOR THE PROPOSED TRACK ALIGNMENT IN ACCORDANCE WITH THE SPECIFICATIONS TO AN ELEVATION AT APPROXIMATELY THE BOTTOM OF THE EXISTING TIES OVER THE LENGTH OF THE TRACK WITHIN THE PROJECT LIMITS.
- 3. CONTRACTOR WILL REMOVE AND PROPERLY DISPOSE OF EXISTING RAILS AND TIES.
- 4. THE CONTRACTOR SHALL FURNISH AND INSTALL BALLAST TO CONSTRUCT THE PROPOSED TRACK BED IN ACCORDANCE WITH NOTE 2.
- 5. ALL TRACK MATERIAL TO BE SUPPLIED BY MASSDOT EXCEPT AS NOTED IN THE SPECIFICATIONS.
- 6. SPECIAL TRACKWORK MANUFACTURER'S SHOP DRAWINGS WILL BE PROVIDED AT A LATER DATE AND MAY VARY SLIGHTLY FROM MBTA STANDARDS.

F. SUBMITTALS

- 1. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA, MATERIAL TEST REPORTS, MATERIAL CERTIFICATES, QUARRY SOURCE, AND QUALIFICATION DATA OF PERSONNEL INVOLVED IN THE INSTALLATION OF THE BITUMINOUS DAMPPROOFING.
- 2. THE CONTRACTOR SHALL SUBMIT A MATERIAL SPECIFICATION TO THE ENGINEER FOR APPROVAL PRIOR TO THE APPLICATION. THE MATERIALS MUST BE ON THE MASSDOT QUALIFIED MATERIALS LIST.
- 3. THE CONTRACTOR SHALL PROVIDE TO MASSDOT ALL WORK RELATED SUBMITTALS AS DEFINED BY CONTRACT DOCUMENTS FOR ACCEPTANCE AND APPROVAL.

	ITEM	UNIT	INTERMODAL TRANSFER TRACK IMPROVEMENTS	RECEIVING TRACK IMPROVEMENTS	TOTAL
			QUANTITY	QUANTITY	QUANTITY
1	SCHEDULE OF OPERATIONS	LUMP SUM	-	-	1
2	PRE-CONSTRUCTION SURVEY AND AS-BUILT PLANS	LUMP SUM	-	-	1
3	MOBILIZATION / DEMOBILIZATION	LUMP SUM	-	-	1
4	EXCAVATION AND WASTING OF EXCAVATED MATERIAL	CY	2,300	-	2,300
5	REMOVAL OF EXISTING TRACK	TF	2,735	825	3,560
6	FURNISH AND INSTALL (F & I) NEW SUBBALLAST	TON	500		500
7	FURNISH AND INSTALL NEW M2.01.7 DENSE GRADED CRUSHED STONE	TON	2,400	-	2,400
8	INSTALL (I) NEW 136RE YARD TRACKS	TF	2,041	-	2,041
9	REHABILITATE EXISTING RECEIVING YARD TRACKS	TF	-	17,250	17,250
10	FURNISH AND INSTALL (F & I) NEW STONE BALLAST	TON	4,000	10,000	14,000
11	ASSEMBLY AND INSTALLATION OF NO. 10 TURNOUT	EA	1 (5	6
12	ASSEMBLY AND INSTALLATION OF NO. 8 TURNOUT	EA	3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3
13	REHABILITATE EXISTING #10 TURNOUT	EA	1 (4 NOTE G	5
14	LINE, SURFACE, TAMP, DRESS TRACK AND TURNOUTS	TF	3,299	18,735	22,034
15	CLEAN UP AND DISPOSE OF REMOVED OR SCRAP CROSSTIES AND TIMBERS	TON	130	540	670
16	(FURNISH, ASSEMBLY AND INSTALL (F, A & I) NEW SLIDING BLOCK (DERAIL	EA	1	<u>-</u>	1
17	(DERAIL) [A	4	-	4
18	FURNISH AND INSTALL (F & I) NEW WHEEL STOP	EA	4	-	4
19	FURNISH AND INSTALL (F & I) RUBBER RAIL SEAL CROSSING (WITH ASPHALT)	TF	366	-	366
20	FURNISH AND INSTALL (F & I) RUBBER RAIL SEAL CROSSING (WITH BALLAST, FARM BUREAU 1)	TF	347	-	347
21	FURNISH AND INSTALL COMPOST FILTER TUBES	LF	700	5,400	6,100
22	FURNISH AND INSTALL HOT MIX ASPHALT (HMA) PAVEMENT	TON	150	-	150
23	ALLOWANCE FOR TRAFFIC MANAGEMENT	ALLOWANCE	-	-	1
24	ALLOWANCE FOR ENVIRONMENTAL AND EROSION AND SEDIMENTATION CONTROL	ALLOWANCE	-	-	1
25	ALLOWANCE FOR EXISTING SITE UTILITY WORK	ALLOWANCE	-	-	1
26	RISK ALLOWANCE	ALLOWANCE	-	-	1
	TES - INCLUDES FROG PLATE REPLACEMENT AND GUARDRAIL INSTALL	· · · · · · · · · · · · · · · · · · ·	}		

INTERMODAL YARD TURNOUT INFORMATION								
TO SIZE THROUGH TRACK TRACK P.S. STA TRACK LLT								
NO. 10 115RE LH (REHAB)	MAIN TRACK 2	503+64.18	504+68.14					
NO. 10 136RE LH	SOUTH TOWER TRACK	10+01.35	11+14.96					
NO. 8 136RE LH	NORTH TOWER TRACK	23+63.23	24+59.32					
NO. 8 136RE LH	FARM BUREAU 1	30+98.24	31+94.33					
NO. 8 136RE RH	CHUCKY TRACK	51+31.49	52+27.57					

	RECEIVING YARD TURNOUT INFORMATION							
ТО	TO SIZE	THROUGH TRACK	DESCRIPTION					
R1A	NO. 10 115RE RH	R1	REHAB WITH FROG AND FULL TIMBER PKG					
R2A	NO. 10 115RE RH	R2	REHAB WITH FROG AND FULL TIMBER PKG					
R3A	NO. 10 115RE RH	R3	REHAB WITH FROG AND FULL TIMBER PKG					
R4A	NO. 10 100NH RH	R4	REHAB WITH FROG AND FULL TIMBER PKG					
R2B	NO. 10 LH	R1 (FULL REPLACEMENT					
R3B	NO. 10 115RE LH	R1	FULL REPLACEMENT					
R4B	NO. 10 115RE LH	R1	FULL REPLACEMENT					
R5B	NO. 10 115RE LH	R1	FULL REPLACEMENT					
R8B	NO. 10 115RE RH	R8	FULL REPLACEMENT					

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	3035549.322	366733.249	172.352	MTRV 1
2	3035639.605	366428.310	181.795	MTRV 2
3	3035565.952	367141.809	171.338	MTRV 3
5	3035731.417	367046.091	173.279	MTRV 5
6	3035771.123	367337.060	174.135	MTRV 6
7	3035368.984	366247.665	199.260	MDHL
8	3035487.535	366272.071	194.767	MTRV 8
9	3035361.112	366250.981	198.746	MTRV 9
10	3035916.846	367672.193	162.277	MTRV 10
11	3035309.057	366295.885	199.100	MTRV 11
14	3035457.986	366729.233	172.290	MTRV 14
15	3035398.569	366444.438	170.909	MTRV 15
16	3035376.735	366233.255	170.485	MTRV 16
17	3035481.570	366534.025	171.842	MTRV 17
18	3035566.400	366773.546	171.884	MTRV 18
19	3035632.930	366973.126	170.972	MTRV 19
20	3035722.430	367237.305	172.333	MTRV 20
21	3035726.190	367316.064	172.110	MTRV 21
22	3035711.690	367553.632	171.955	MTRV 22

GROUND CONTOL WAS ESTABLISHED THROUGH THE USE OF GPS, UTILIZING NAD 83 AS THE HORIZONTAL DATUM AND NAVD 88 AS THE VERTICAL DATUM.



CONSULTANTS



Harris Miller Miller & Hanson Inc. 700 District Avenue, Ste 800 Burlington, MA 01803 781-229-0707

> Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027 413-529-1700

JOSEPH SERBLIN CIVIL No. 59013

SEALS

PROJECT IDENTIFICATION

12/18/2024

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD
INTERMODAL AND RECEIVING
YARD IMPROVEMENTS PROJECT

1 12/18/24 ADDENDUM 1 MAY
0 8/28/24 ISSUED FOR CONSTRUCTION MAY
MARK DATE DESCRIPTION BY

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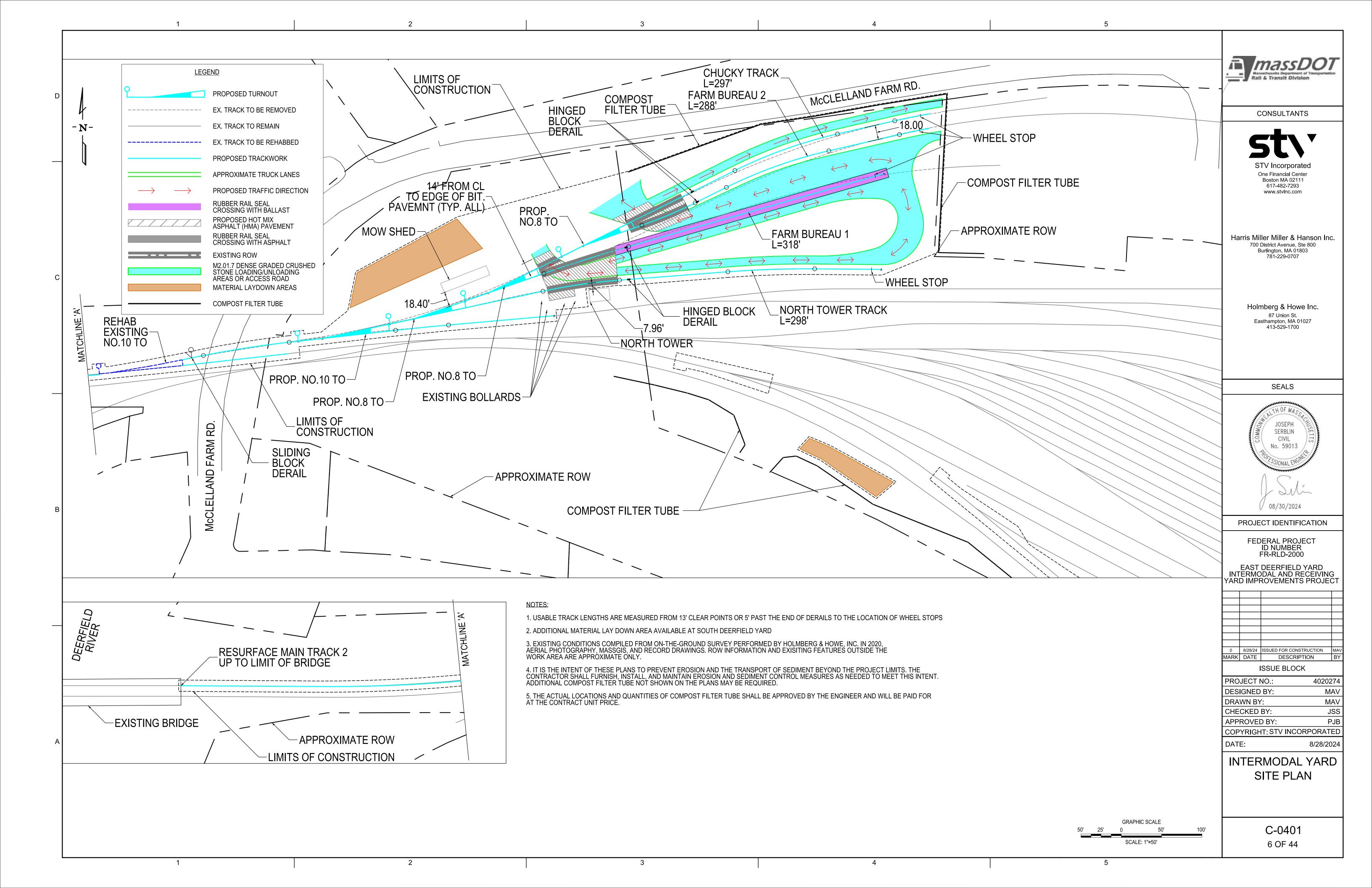
GENERAL NOTES

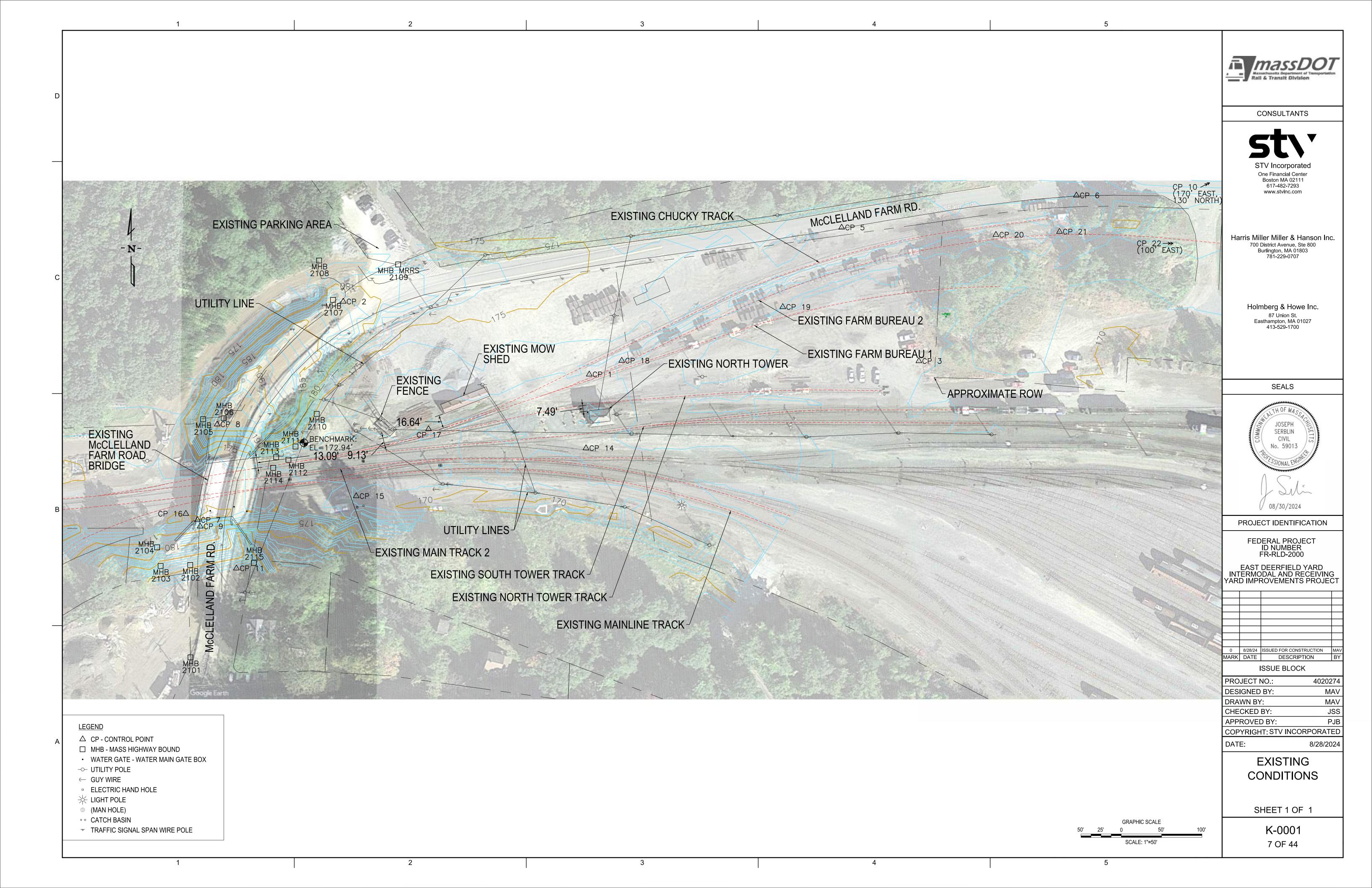
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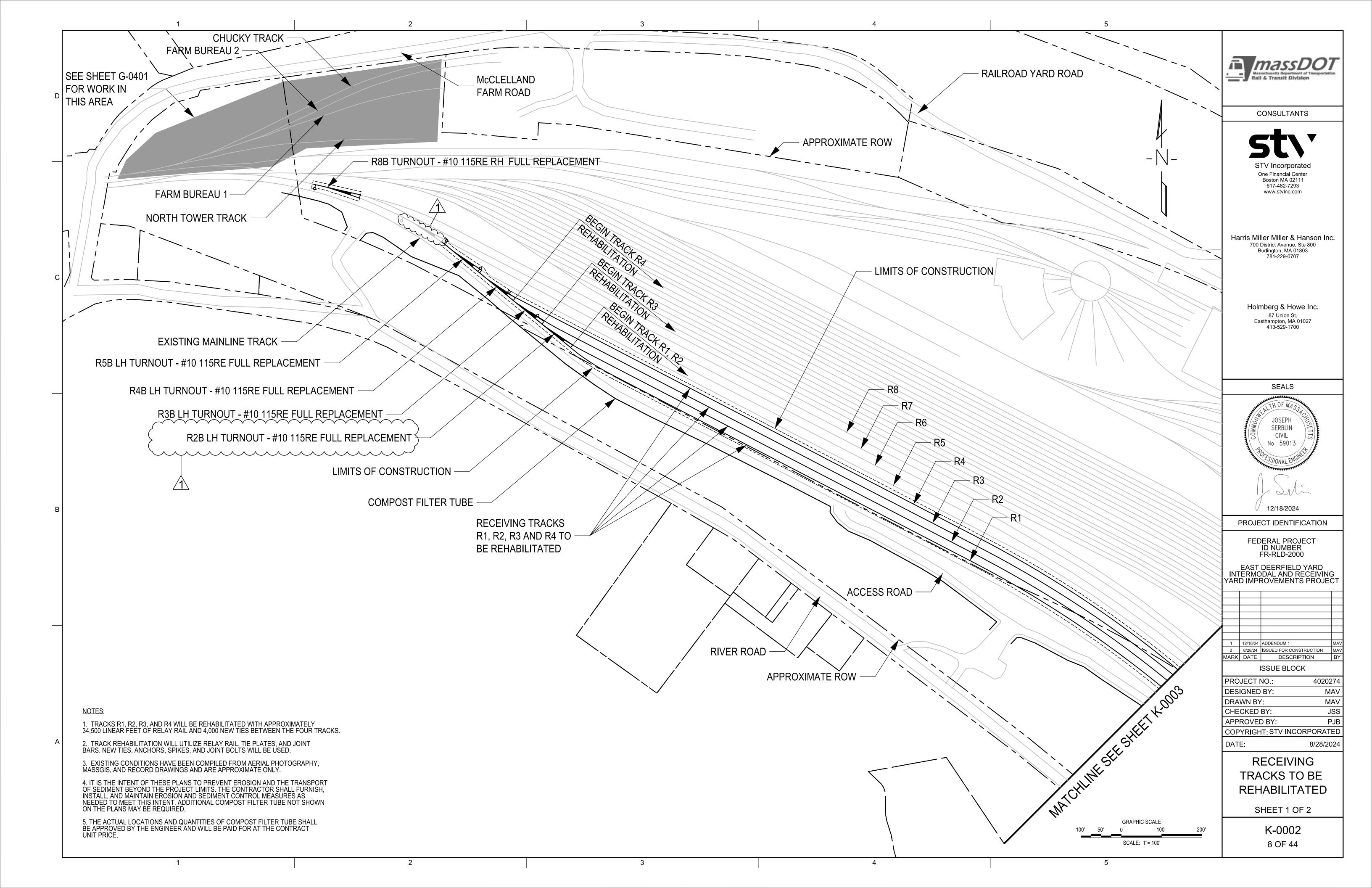
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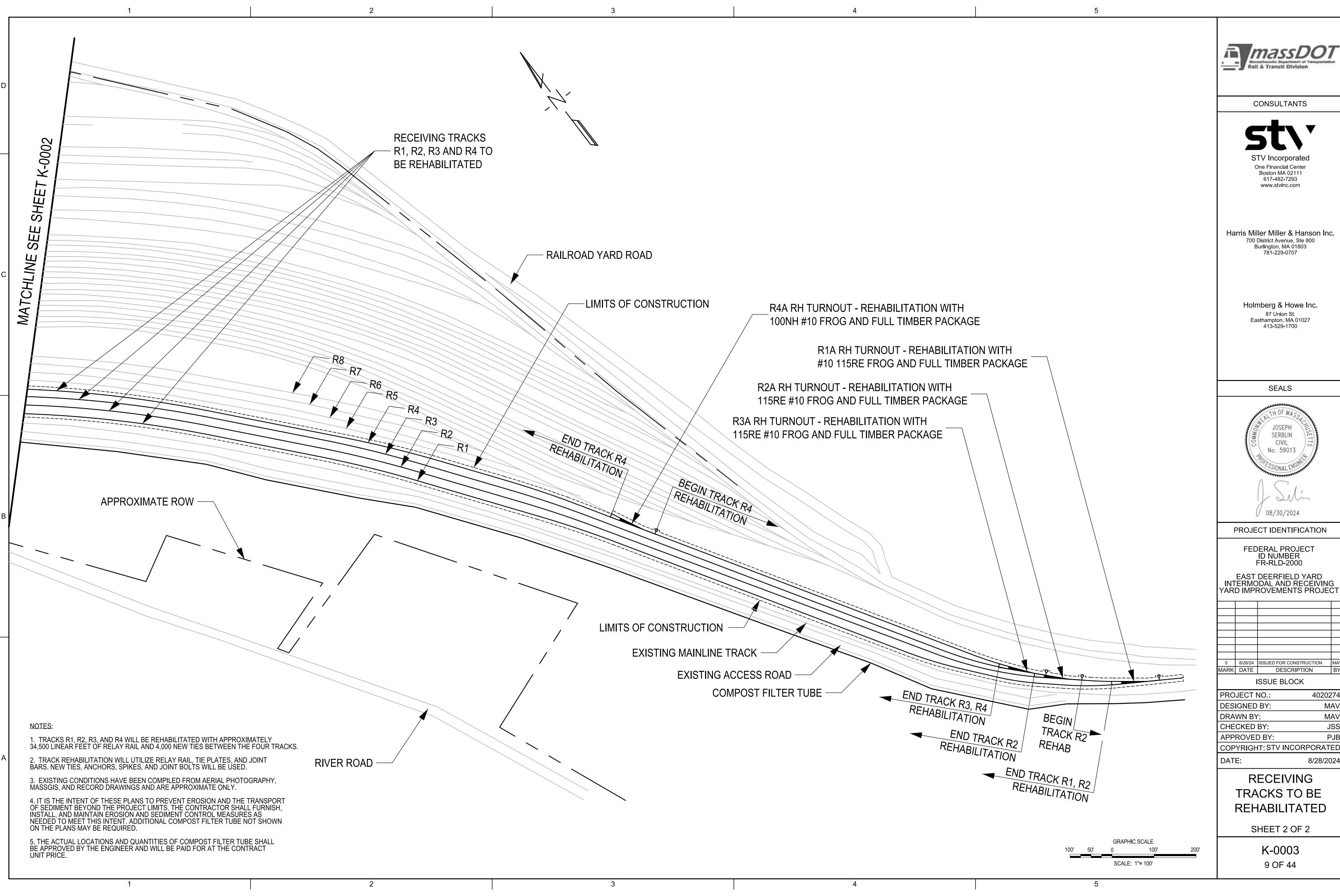
DATE:

G-0301 5 OF 44











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MARK	DATE	DESCRIPTION	BY			
	ISSUE BLOCK					
PRO	PROJECT NO.: 4020274					
DES	IGNED	BY: M	AV			

MAV JSS PJB

TRACK GEOMETRY DATA - SOUTH TOWER TRACK

ELEMENT	CUDVE No	DOINT	DINT STATION	BEARING	COORD	INATES			DATA		
ELEWENT	CURVE No.	POINT	STATION	BEARING	NORTHING	EASTING	DATA				
		P.O.B.	10+01.35		3035440.4975	366372.7464					
TANGENT				N 83°38'12.55" E			Lt = 121.38'				
CURVE	STT - 1	P.C.	11+22.73		3035453.9499	366493.3766	CURVE SET: ANGLE(I) = 1°19'05.80" RIGHT LENGTH = 65.92	Ic = 1°19'05.80"	Dc = 2°00'00.00"	R = 2864.93'	Lc(CHORD) = 65.91'
		P.I.c.			3035457.6028	366526.1336	PI: N = 3035457.6028 E = 366526.1336	Tc = 32.96'	Ec = 0.19'	CC: N = 3032606.6653	E = 366810.8981
		P.T.	11+88.65		3035460.5012	366558.9660	PI STATION = 11+55.69	V = 10 MPH	Ee = 0.14"	Ea = 0"	Eu = 0.14"
TANGENT				N 84°57'18.35" E			Lt = 131.35'				
		P.O.T.	13+20.00		3035472.0519	366689.8095					



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> Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027 413-529-1700

> > SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

0	8/28/24	ISSUED FOR CONSTRUCTION					
MARK	DATE DESCRIPTION						
ISSUE BLOCK							

ROJECT NO.:	4020274
ESIGNED BY:	MAV
RAWN BY:	MAV
HECKED BY:	JSS
PPROVED BY:	PJB

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DATE: 8/28/2024

TRACK GEOMETRY

DATA

SHEET 1 OF 3

K-0004 10 OF 44

TRACK GEOMETRY DATA - FARM BUREAU 1

FLENAFNIT	OUDVE N	DOINT	OTATION	DEADINO	COORD	INATES			DATA		
ELEMENT	CURVE No.	POINT	STATION	BEARING	NORTHING	EASTING			DATA		
		P.O.B.	30+00.00		3035461.8175	366486.5380					
TANGENT				N 77°54'43.55" E			Lt = 30.00'				
		P.I.	30+30.00		3035468.0999	366515.8728					
TANGENT				N 70°45'33.55" E			Lt = 170.92'				
		P.C.	32+00.92		3035524.4245	366677.2463	CURVE SET:				
		F.C. 3	F.O. 32100.92		3000024.4240	300077.2403	ANGLE(I) = 3°18'02.67" RIGHT	Ic = 3°18'02.67"	$Dc = 3^{\circ}00'00.00"$	R = 1910.08'	Lc(CHORD) = 110.02
CURVE	FB1-1						LENGTH = 110.04				
		P.I.c.			3035542.5602	366729.2061	PI: N = 3035542.5602 E = 366729.2061	Tc = 55.03'	Ec = 0.79'	CC: N = 3033721.0389	E = 367306.6877
		P.T.	33+10.96		3035557.6742	366782.1240	PI STATION = 32+55.95	V = 10 MPH	Ee = 0.21"	Ea = 0"	Eu = 0.21"
TANGENT				N 74°03'36.22" E			Lt = 329.87'				
		P.O.E.	36+40.83		3035648.2661	367099.3102					

TRACK GEOMETRY DATA - NORTH TOWER TRACK

EL ENGENIT	CUDVE No	DOINT	CTATION	DEADING	COORE	DINATES			DATA		
ELEMENT	CURVE No.	POINT	STATION	BEARING	NORTHING	EASTING			DATA		
		P.O.B.	19+97.31		3035399.0709	366126.3248					
TANGENT				N 84°26'00.56" E			Lt = 20.25'				
		P.I.	20+17.56		3035401.0351	366146.4793					
TANGENT				N 78°42'31.56" E			Lt = 110.82'				
TANGLITI				1470 4231.30 L			Lt - 110.02				
		D.C.	24 20 20		2025422 7225	266255 4500	CURVE SET:				
		P.C.	21+28.38		3035422.7325	366255.1508	ANGLE(I) = 4°55'40.99" RIGHT	Ic = 4°55'40.99"	$Dc = 4^{\circ}35'00.00"$	R = 1250.42'	Lc(CHORD) = 107.52'
CURVE	NTT - 1						LENGTH = 107.55				
		P.I.c.		_	3035433.2680	366307.9174	PI: N = 3035433.2680 E = 366307.9174	Tc = 53.81'	Ec = 1.16'	CC: N = 3034196.5119	E = 366499.9787
		P.T.	22+35.93		3035439.2315	366361.3940	PI STATION = 21+82.19	V = 10 MPH	Ee = 0.32"	Ea = 0"	Eu = 0.32"
TANGENT				N 83°38'12.55" E			 Lt = 41.32'				
7.1.132111			00.77.05	1100 00 12100 2	2005442.0400	000400 4504					
		P.I.	22+77.25		3035443.8109	366402.4581					
TANGENT				N 77°54'43.55" E			Lt = 279.77'				
							CURVE SET:				
		P.C.	25+57.01		3035502.3972	366676.0206	ANGLE(I) = 7°40'41.19" RIGHT	Ic = 7°40'41.19"	Dc = 8°00'00.00"	R = 716.78'	Lc(CHORD) = 95.98'
CURVE	NTT - 2						LENGTH = 96.05		20 0 00 00 00	10110	20(0110112) 00100
		P.I.c.			3035512.4697	366723.0533	PI: N = 3035512.4697 E = 366723.0533	Tc = 48.10'	Ec = 1.61'	CC: N = 3034801.5106	E = 366826.1229
		<u>Р.Т.</u>	26+53.07		3035516.1681	366771.0101	PI STATION = 26+05.11	V = 10 MPH	Ee = 0.56"	Ea = 0"	Eu = 0.56"
TANIOENIT		1111	20 00.01	N. 05005104 741 5	0000010.1001	000777.0101	1, 10,100				
TANGENT				N 85°35'24.74" E			Lt = 134.60'				
					_		CURVE SET:				
		P.C.	27+87.67		3035526.5177	366905.2161	ANGLE(I) = 4°55'58.21" RIGHT	Ic = 4°55'58.21"	$Dc = 4^{\circ}35'00.00"$	R = 1250.42'	Lc(CHORD) = 107.63'
CURVE	NTT - 3						LENGTH = 107.65				, ,
		P.I.c.			3035530.6590	366958.9170	PI: N = 3035530.6590 E = 366958.9170	Tc = 53.86'	Ec = 1.16'	CC: N = 3034279.7964	E = 367001.3604
		P.T.	28+95.33		3035530.1673	367012.7751	PI STATION = 28+41.53	V = 10 MPH	Ee = 0.32"	Ea = 0"	Eu = 0.32"
TANGENT				N 89°28'37.05" W			Lt = 82.47'				
		P.O.E.	29+77.80		3035529.4145	367095.2409					



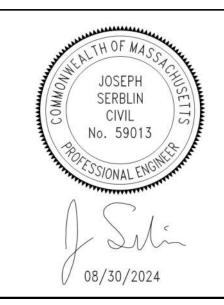
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> > SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD
INTERMODAL AND RECEIVING
YARD IMPROVEMENTS PROJECT

0	8/28/24	ISSUED FOR CONSTRUCTION	Ν					
MARI	MARK DATE DESCRIPTION							
	ISSUE BLOCK							

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TRACK GEOMETRY DATA

SHEET 2 OF 3

K-0005 11 OF 44

TRACK GEOMETRY DATA - CHUCKY TRACK

FUENATNIT	OUDVE N.	DOINT	OTATION	DEADINO	COORE	DINATES			DATA		
ELEMENT	CURVE No.	POINT	STATION	BEARING	NORTHING	EASTING	DATA				
		P.O.B.	50+00.00		3035490.588	366580.3038					
TANGENT				N 70°45'33.55" E			Lt = 30.00'				
		P.I.	50+30.00		3035500.475	366608.6281					
		F.I.	50+30.00		3033300.473	300000.0281					
TANGENT				N 63°36'23.55" E			Lt = 340.86'				
		P.C.	53+70.86		3035651.998	366913.9579	CURVE SET:				
							ANGLE(I) = 13°30'04.94" RIGHT	Ic = 13°30'04.94"	$Dc = 9^{\circ}59'59.98"$	R = 573.69'	Lc(CHORD) = 135.01'
CURVE	CT - 1						LENGTH = 135.19				
		P.I.c.		-	3035682.185	366974.7866	PI: N = 3035682.1851E = 366974.7866	Tc = 67.91'	Ec = 4.01'	CC: N = 3035138.1117	E = 367168.9802
		P.T.	55+06.05		3035697.336	367040.982	PI STATION = 54+38.77	V = 10 MPH	Ee = 0.70"	Ea = 0"	Eu = 0.70"
TANGENT				N. 7700000 50# 5							
TANGENT				N 77°06'28.50" E			Lt = 72.89'				
					_		CURVE SET:				
		P.C.	55+78.93		3035713.598	367112.0303	ANGLE(I) = 5°19'20.27" RIGHT	Ic = 5°19'20.27"	Dc = 7°00'00.01"	R = 819.02'	Lc(CHORD) = 76.03'
CURVE	CT - 2						LENGTH = 76.08	10 - 3 19 20.21	DC = 7 00 00.01	11 - 013.02	LO(OHOND) = 10.03
001(12	01 2	P.I.c.		-	3035722.092	367149.1381	PI: N = 3035722.0915 E = 367149.1381	Tc = 38.07'	Ec = 0.88'	CC: N = 3034915.2239	E = 367294.7663
				-			PISTATION = 56+17.00	V = 10 MPH	Ee = 0.49"	Ea = 0"	Eu = 0.49"
		P.T.	56+55.01		3035727.106	367186.8738					
TANGENT				N 82°25'48.77" E			Lt = 114.80'				
		P.O.T.	57+69.81		3035742.23	367300.6759					

NOTE: END TRACK CONSTRUCTION AT CT P.O.E. STA 56+23.38 (N: 3035722.3350, E: 367155.6064)

TRACK GEOMETRY DATA - FARM BUREAU 2

EL ENAENIT	OUDVE No	DOINT	OTATION	DEADING	COORD	INATES			DATA		
ELEMENT	CURVE No.	POINT	STATION	BEARING	NORTHING	EASTING			DATA		
		P.O.B.	40+00.00		3035545.5892	366699.5371					
TANGENT				N 63°36'23.55" E			Lt = 30.00'				
		P.I.	40+30.00		3035558.9252	366726.4100					
TANGENT				N 70°45'33.55" E			Lt = 76.58'				
							CURVE SET:				
		P.C.	41+06.58		3035584.1611	366798.7123	ANGLE(I) = 7°09'10.00" LEFT	Ic = 7°09'10.00"	Dc = 9°59'59.98"	R = 573.69'	Lc(CHORD) = 71.53'
CURVE	FB2 - 1						LENGTH = 71.62				
		P.I.c.			3035595.9770	366832.5654	PI: N = 3035595.9770 E = 366832.5654	Tc = 35.86'	Ec = 1.12'	CC: N = 3036125.8025	E = 366609.6615
		— P.T.	41+78.20		3035611.9161	366864.6838	PI STATION = 41+42.44	V = 10 MPH	Ee = 0.70"	Ea = 0"	Eu = 0.70"
TANGENT				N 63°36'23.55" E			Lt = 43.17'				
CURVE	FB2 - 2	P.C.	42+21.36		3035631.1046	366903.3499	CURVE SET: ANGLE(I) = 13°30'04.94" RIGHT LENGTH = 135.19	Ic = 13°30'04.94"	Dc = 9°59'59.98"	R = 573.69'	Lc(CHORD) = 135.01'
		P.I.c.			3035661.2916	366964.1786	PI: N = 3035661.2916 E = 366964.1786	Tc = 67.91'	Ec = 4.01'	CC: N = 3035117.2182	E = 367158.3722
		P.T.	43+56.55		3035676.4427	367030.3740	PI STATION = 42+89.27	V = 10 MPH	Ee = 0.70"	Ea = 0"	Eu = 0.70"
TANGENT			10 - 00,00	N 77°06'28.50" E	000010.1127	001000.0110	 Lt = 89.82'				
CURVE	FB2 - 3	P.C.	44+46.37		3035696.4838	367117.9337	CURVE SET: ANGLE(I) = 18°10'25.45" RIGHT LENGTH = 330.56	Ic = 18°10'25.45"	Dc = 5°30'00.00"	R = 1042.14'	Lc(CHORD) = 330.43'
		P.I.c.			3035733.6725	367280.4111	PI: N = 3035733.6725 E = 367280.4111	Tc = 166.68'	Ec = 13.25'	CC: N = 3034680.6126	E = 367350.4516
		P.T.	47+76.93		3035718.3294	367446.3824	PI STATION = 46+13.05	V = 10 MPH	Ee = 0.38"	Ea = 0"	Eu = 0.38"
TANGENT				N 84°43'06.06" W			Lt = 78.10'				
TANGENT		P.O.T.	48+55.03	IN 04 45 UO.UO VV	3035711.1403	367524.1495	LI - 70.10				

NOTE: END TRACK CONSTRUCTION AT FB2 P.O.E. STA 44+83.96 (N: 3035704.2075, E: 367154.7161)



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PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

0	8/28/24	ISSUED FOR CONSTRUCTION					
MARK	K DATE DESCRIPTION						
ISSUE BLOCK							
PRO	PROJECT NO 4020274						

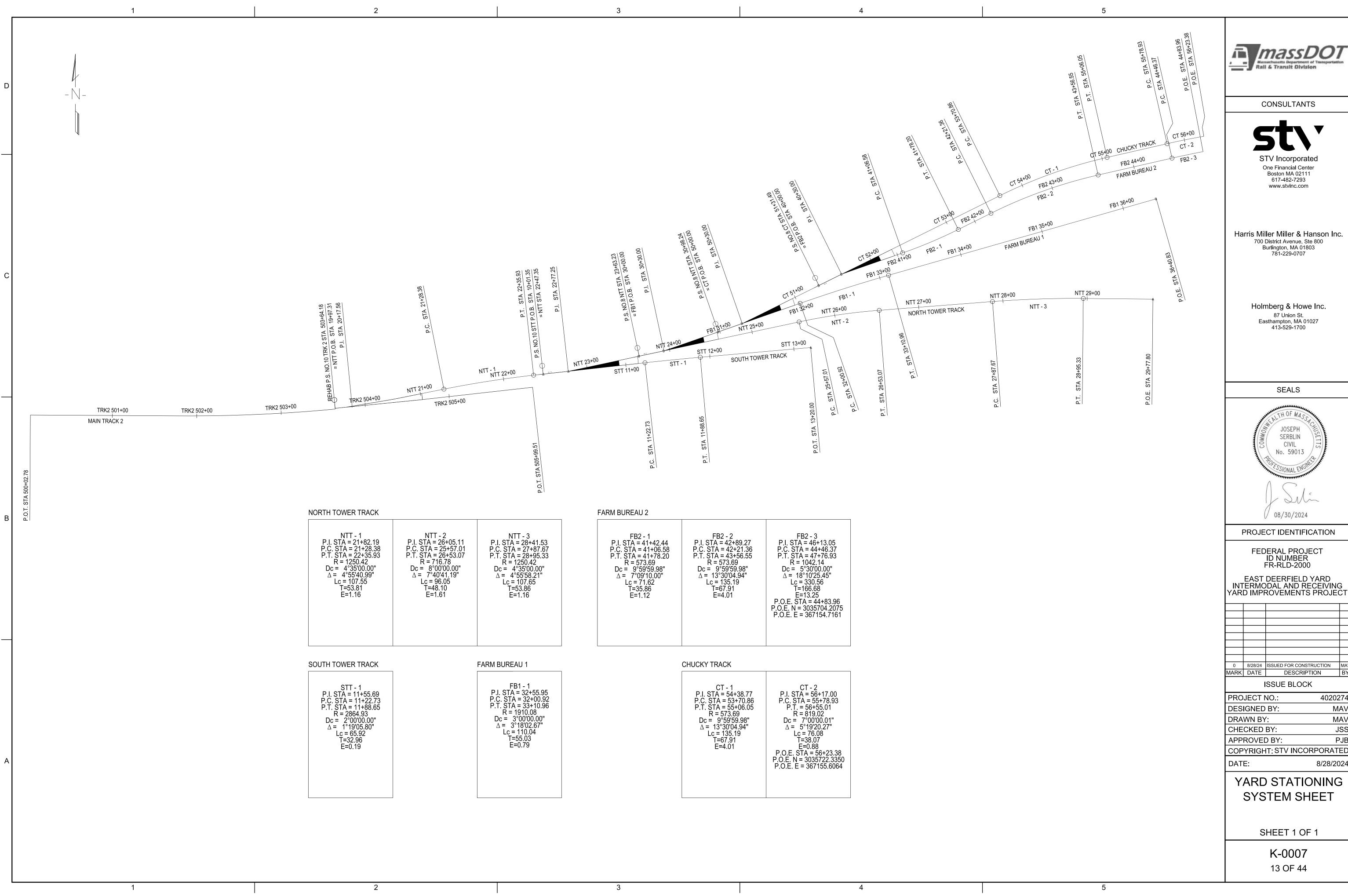
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TRACK GEOMETRY DATA

SHEET 3 OF 3

K-0006 12 OF 44





0	8/28/24	ISSUED FOR CONSTRUCTION	MAV				
MARK	DATE	DATE DESCRIPTION					
ISSUE BLOCK							
PRO	PROJECT NO.: 40202						

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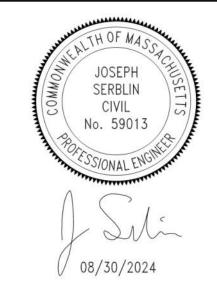
www.stvinc.com EX. GROUND -EX. ABUTMENT SEALS NORTH TOWER TRACK EX. MAIN TRACK 2 EX. MAIN 1 EX. CONNECTOR 21.00'* 1.28' →|| **€ EX. NORTH** TOWER TRACK *VERTICAL CLEARANCE UNDER BRIDGE MEASURED TO BE 21.00' AS PER INSPECTION PLAN MARCH 9TH 2020 McCLELLAND FARM ROAD BRIDGE NORTH TOWER TRACK STA 21+52.45 ISSUE BLOCK PROJECT NO.: DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY: 1. ALL CROSS SECTIONS ARE DRAWN FACING UP STATION 2. SECTION DRAWN PARALLEL TO CENTERLINE OF BRIDGE K-0008

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PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

0 8/28/24 ISSUED FOR CONSTRUCTION MAV MARK DATE DESCRIPTION BY

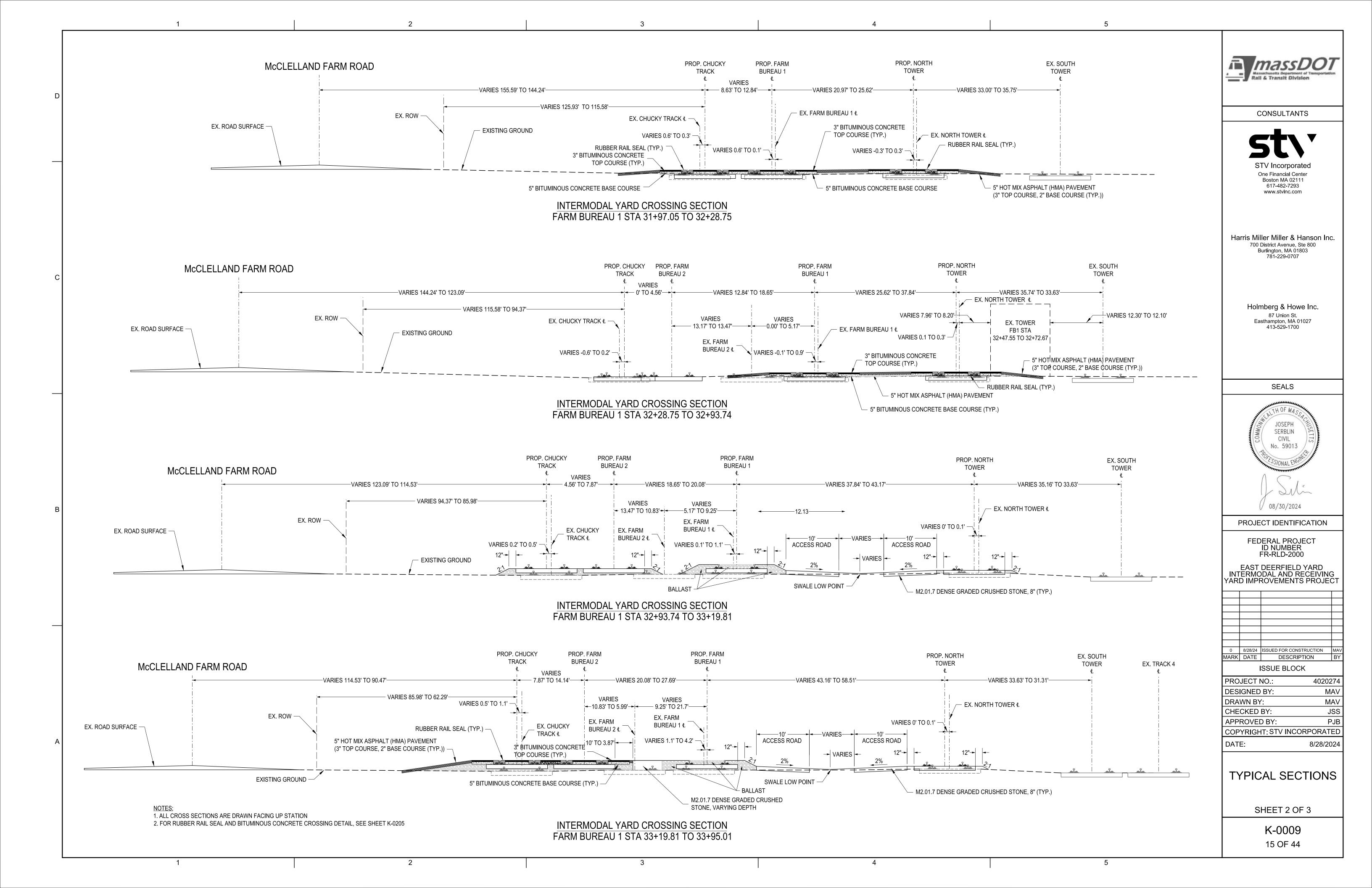
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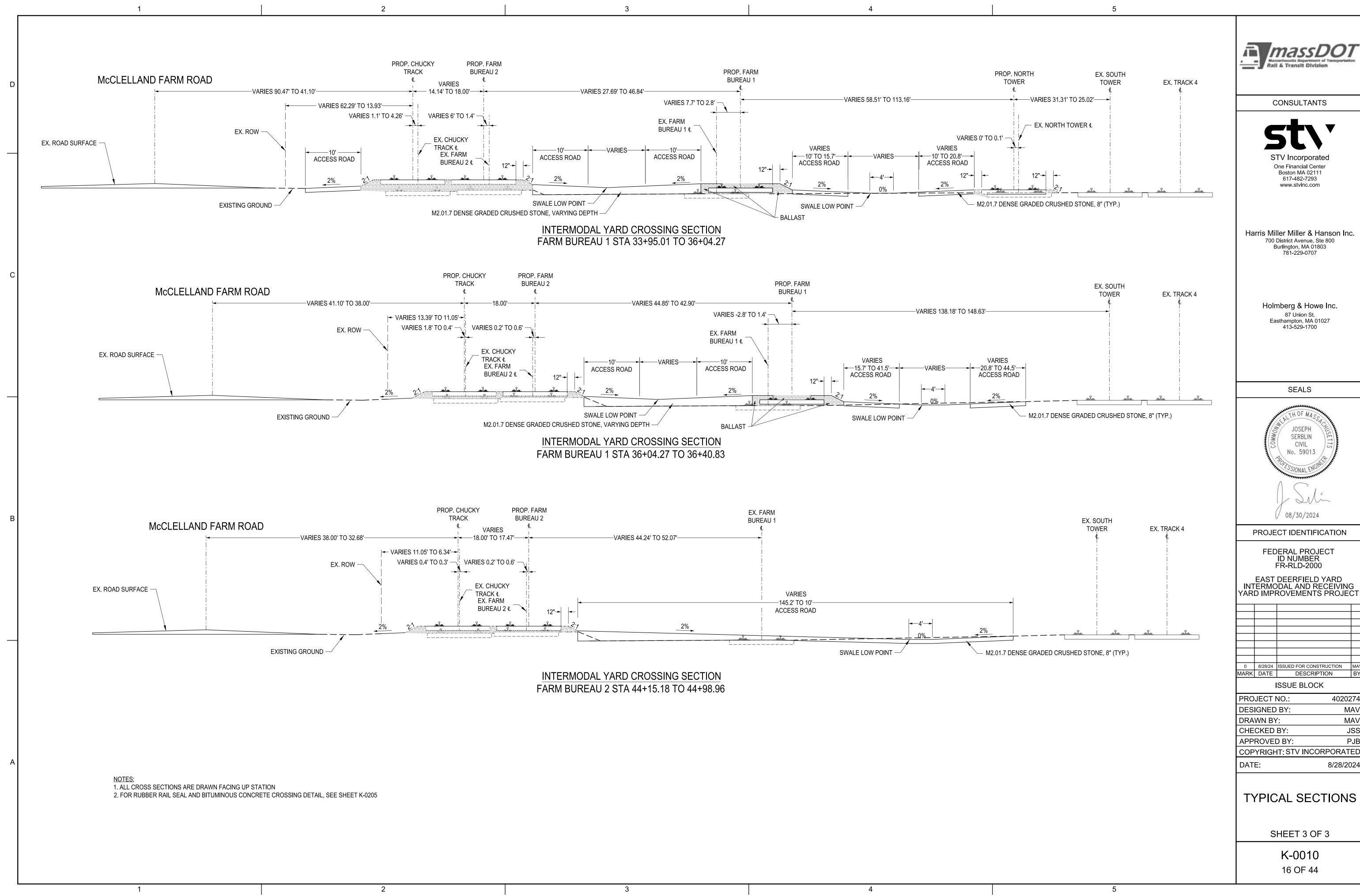
TYPICAL SECTIONS

8/28/2024

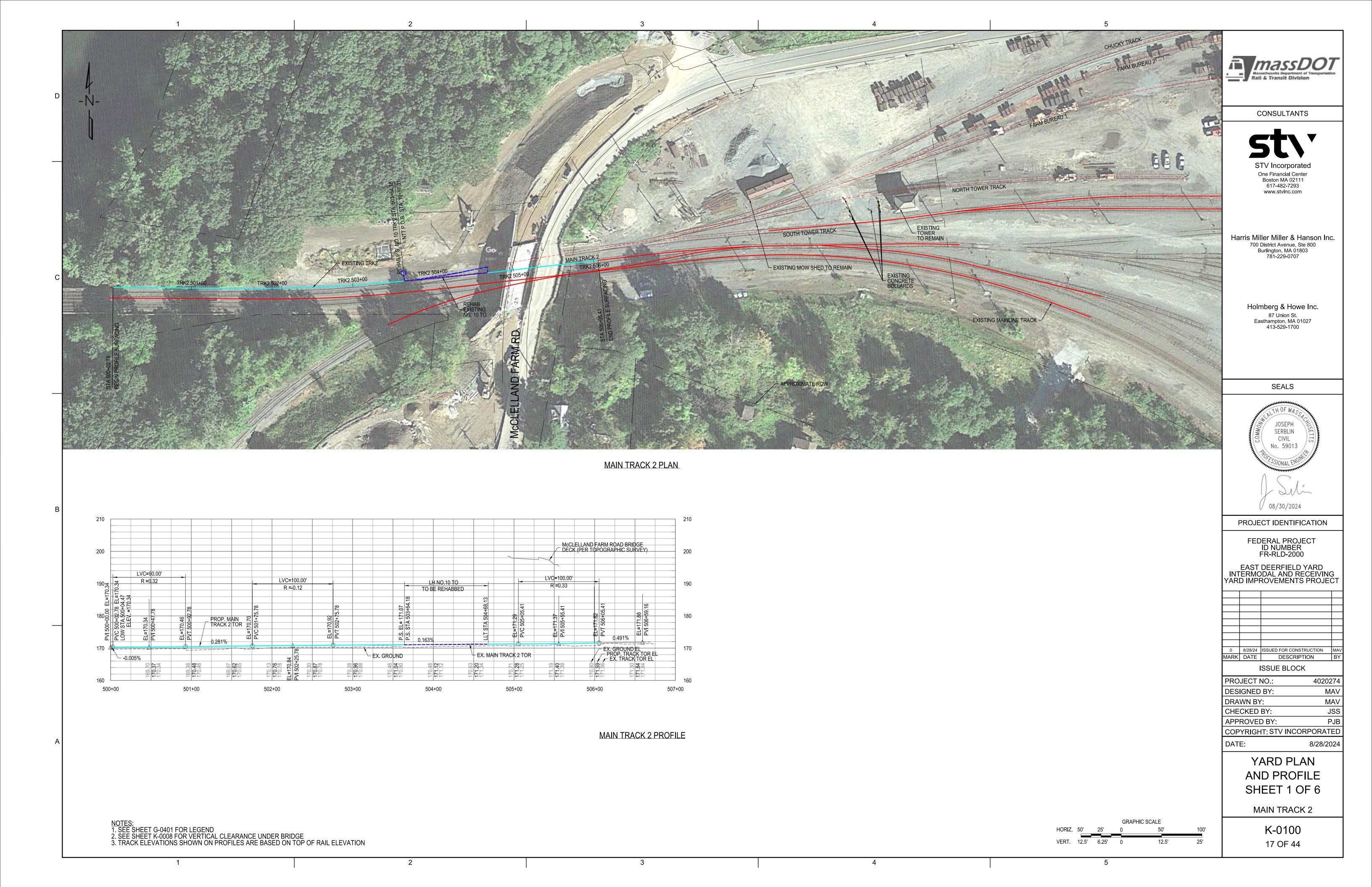
SHEET 1 OF 3

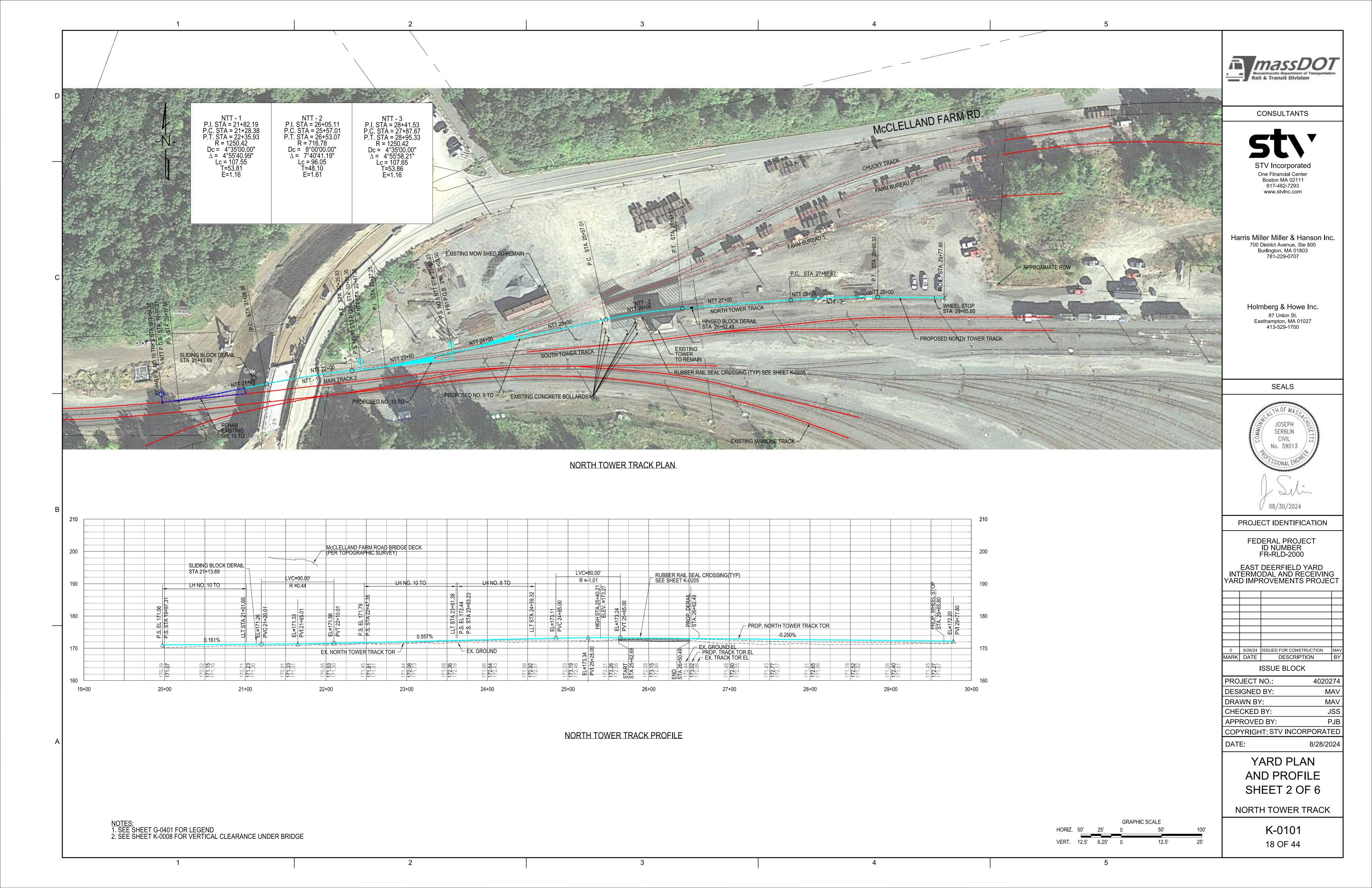
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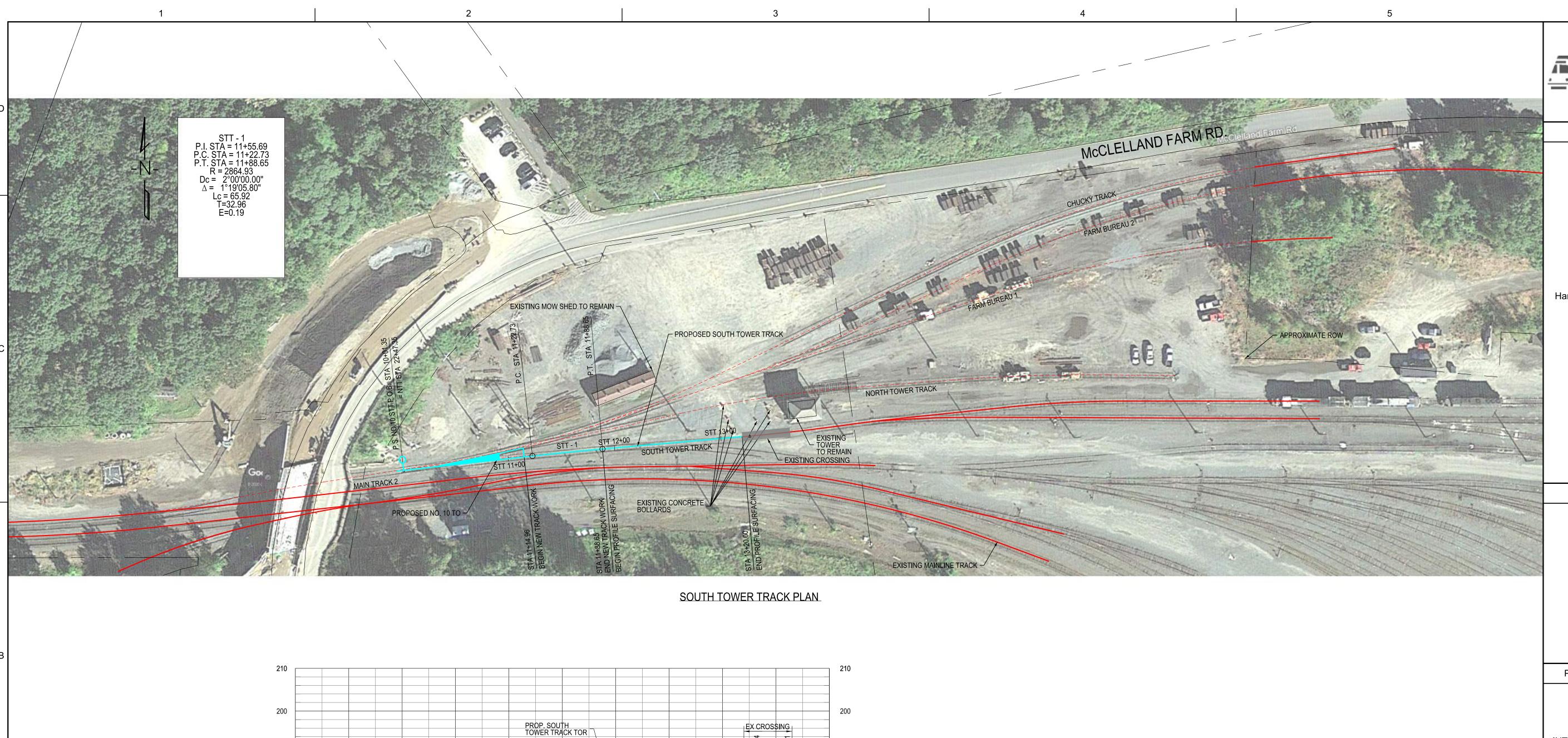




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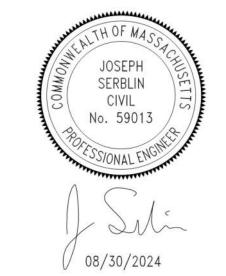
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PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

0 8/28/24 ISSUED FOR CONSTRUCTION MAV MARK DATE DESCRIPTION BY

ISSUE BLOCK

PROJECT NO.: 4020274

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YARD PLAN AND PROFILE SHEET 3 OF 6

SOUTH TOWER TRACK

K-0102 19 OF 44

SOUTH TOWER TRACK PROFILE

-0.060%

14+00

LVC=65.00'

R =0.18

EL=172.36 PVI 12+87.5

13+00

EX. GROUND

- EX. SOUTH TOWER TRACK TOR

172.03 172.42 172.36

LVC=65.00'

R =-1.14

EL=172.42
PVC 11+15.00
EL=172.61
FVI 11+47.50
HIGH STA.11+64.20
ELEV.=172.56
ELEV.=172.56

PROP. TRACK TOR EL

EX. TRACK TOR EL

10+00

11+00

172.00 172.51 172.34

12+00

NOTE: 1. SEE SHEET G-0401 FOR LEGEND 2. TRACK ELEVATIONS SHOWN ON PROFILES ARE BASED ON TOP OF RAIL ELEVATION

190

180

170

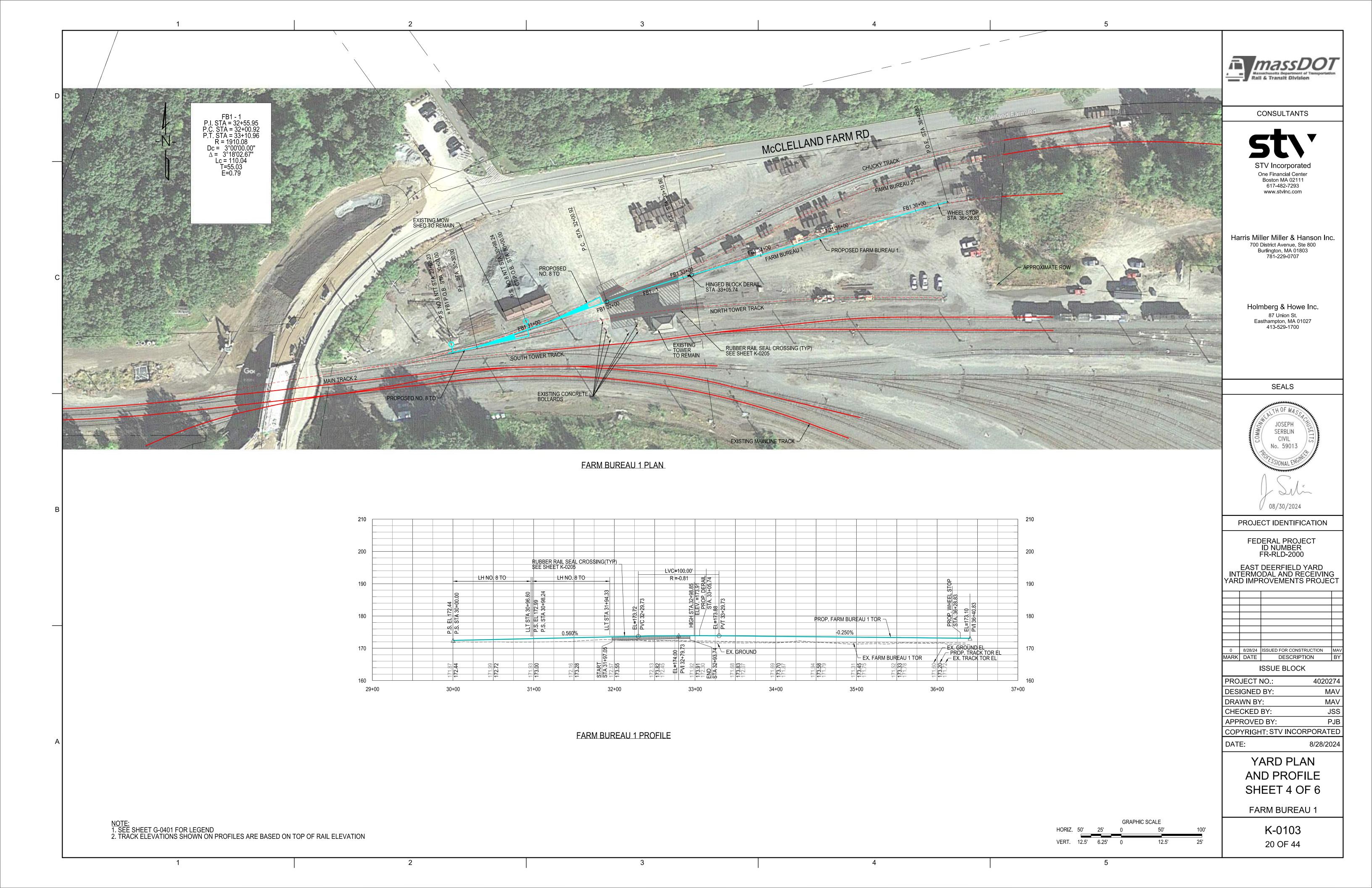
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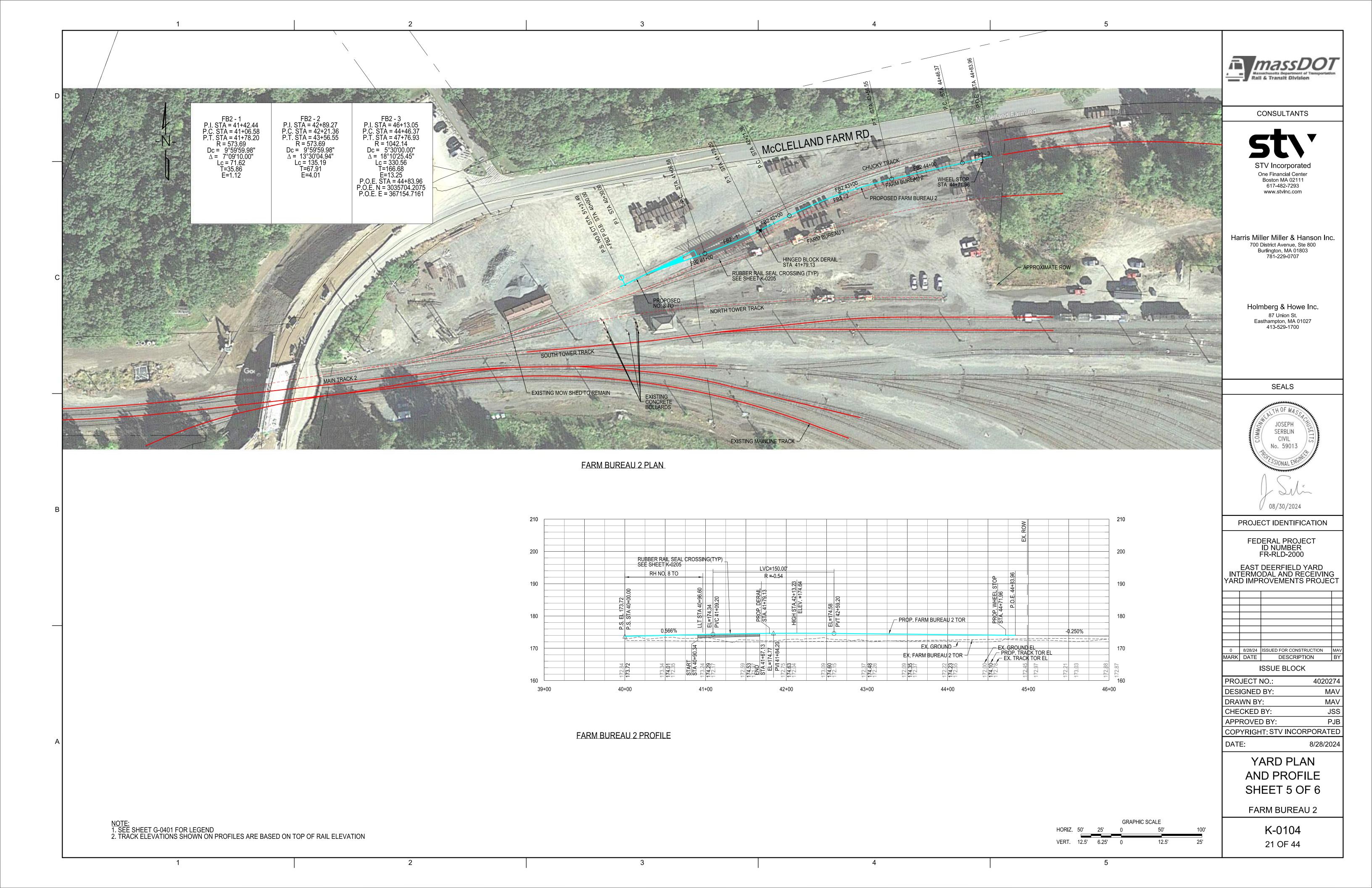
9+00

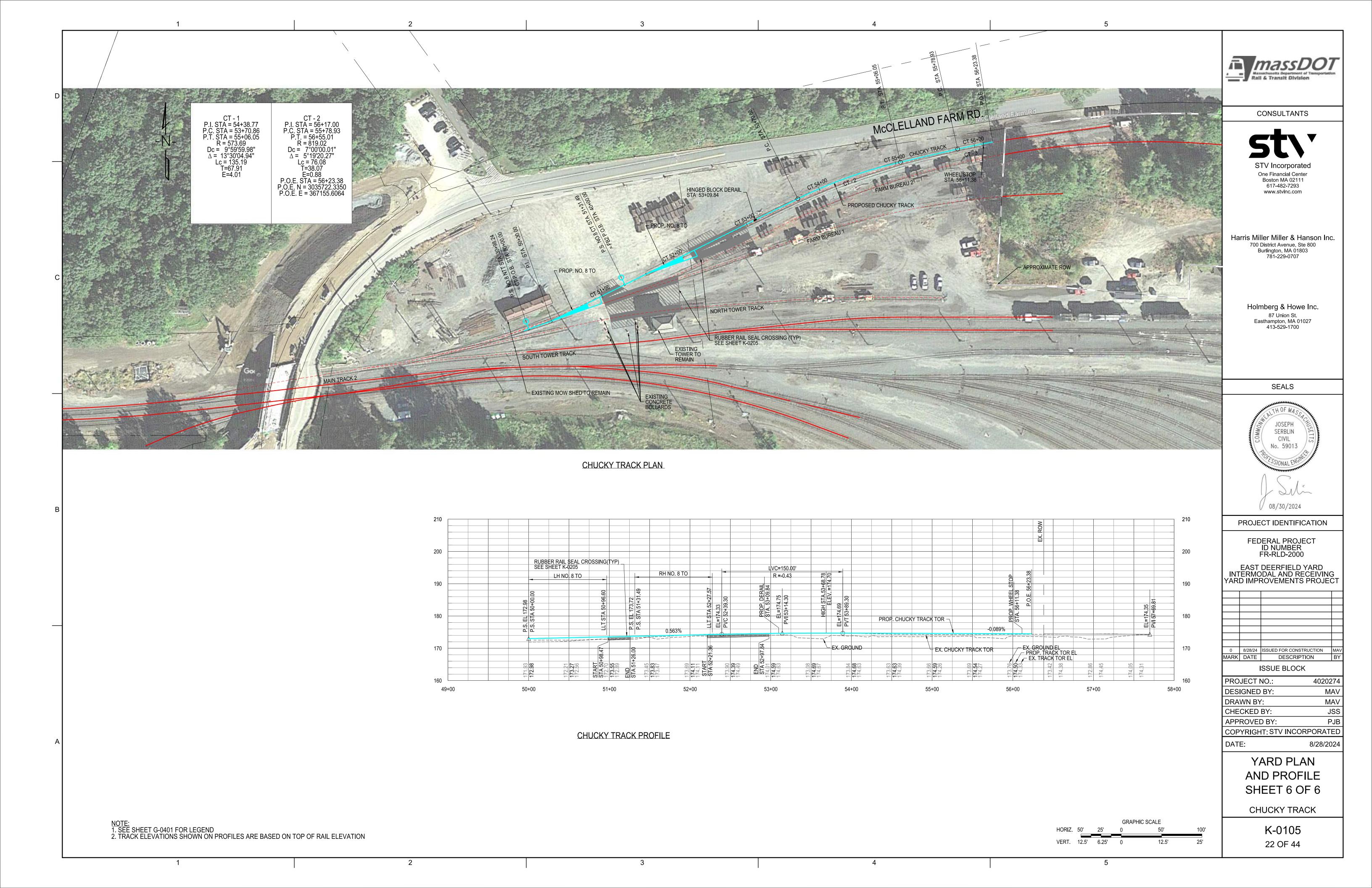
GRAPHIC SCALE

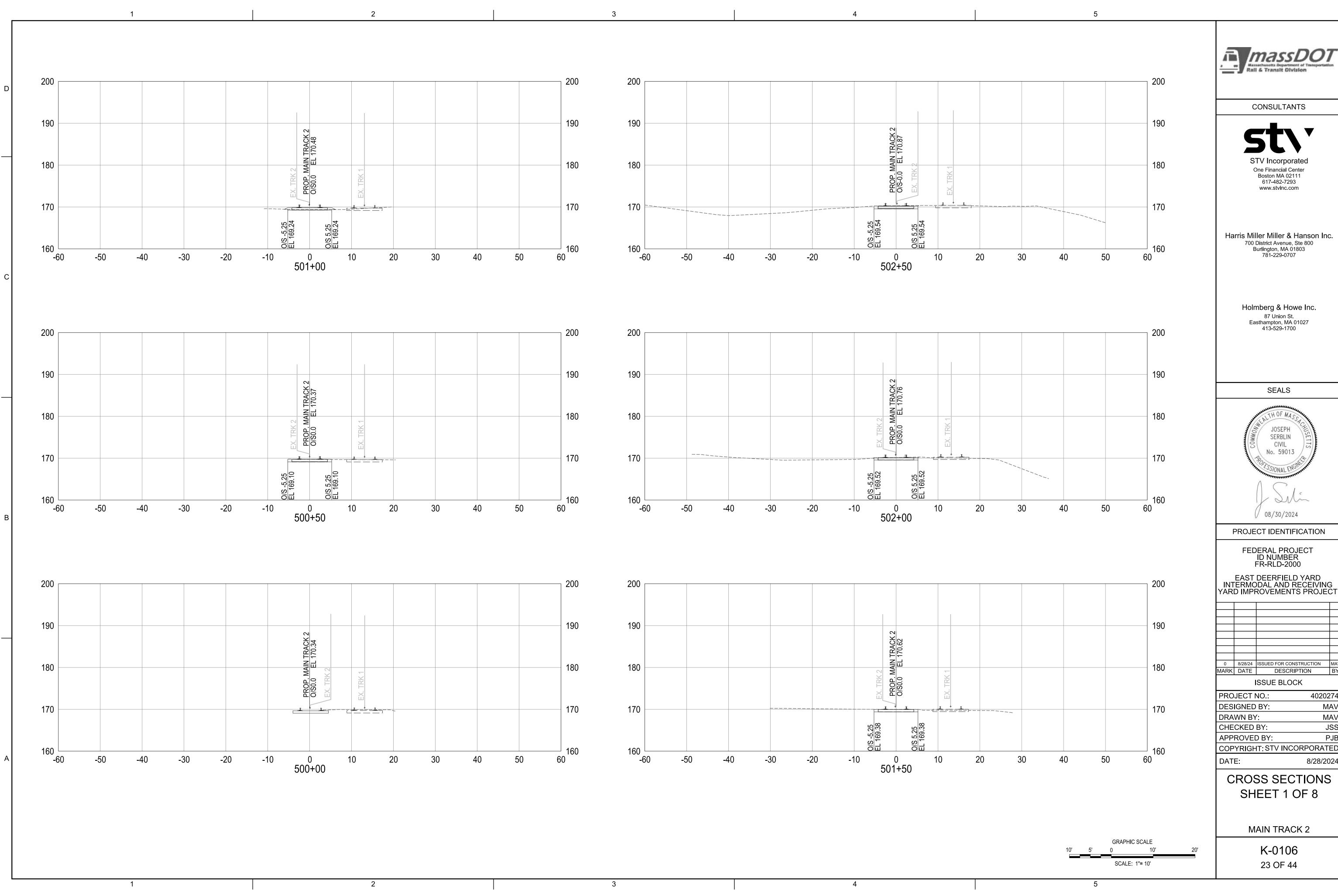
HORIZ. 50' 25' 0 50' 100'

VERT. 12.5' 6.25' 0 12.5' 25'









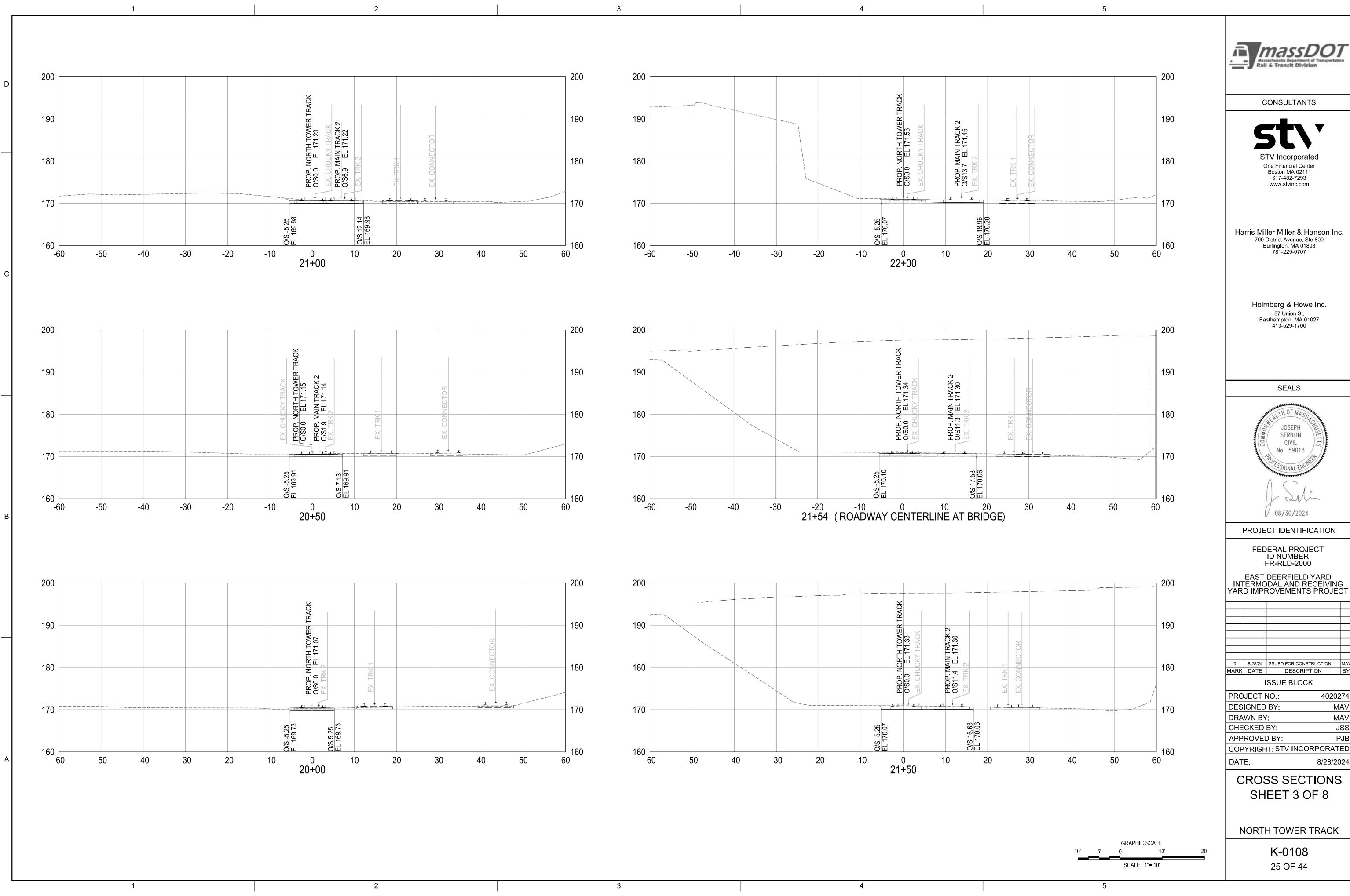


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ISSUE BLOCK				
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MARK DATE DESCRIPTION BY ISSUE BLOCK PROJECT NO.: 4020274 170 O/S 5.25 EL 169.64 -20 30 -60 0 503+00 8/28/2024 CROSS SECTIONS SHEET 2 OF 8 MAIN TRACK 2 **GRAPHIC SCALE** K-0107 24 OF 44 SCALE: 1"= 10'

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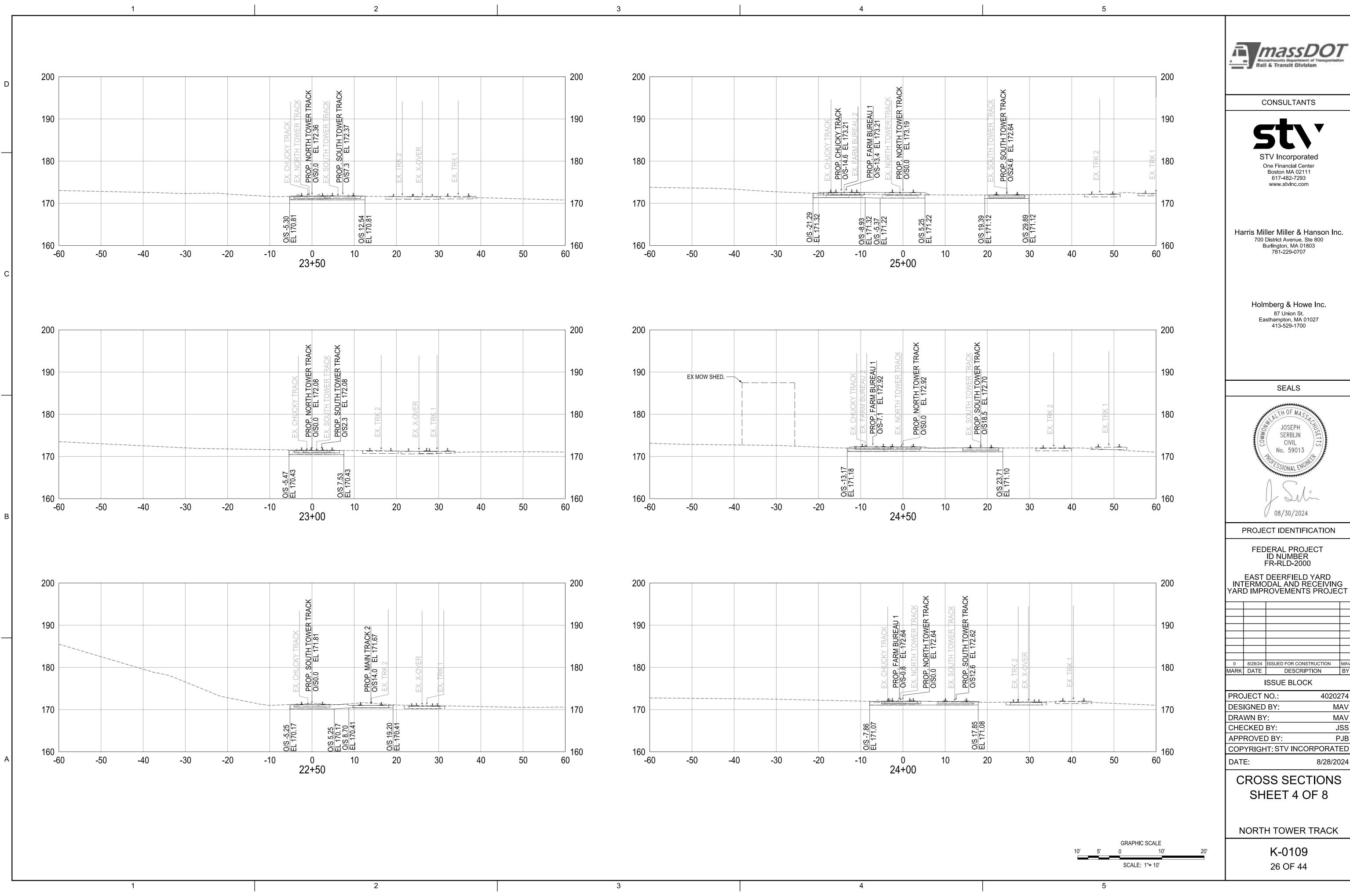




EAST DEERFIELD YARD
INTERMODAL AND RECEIVING
YARD IMPROVEMENTS PROJECT

TARD IMPROVEMENTS PROJECT					
0	8/28/24	ISSUED FOR CONSTRUCTION	MA		
MARK	RK DATE DESCRIPTION		B,		
ISSUE BLOCK					
PROJECT NO.: 402027					

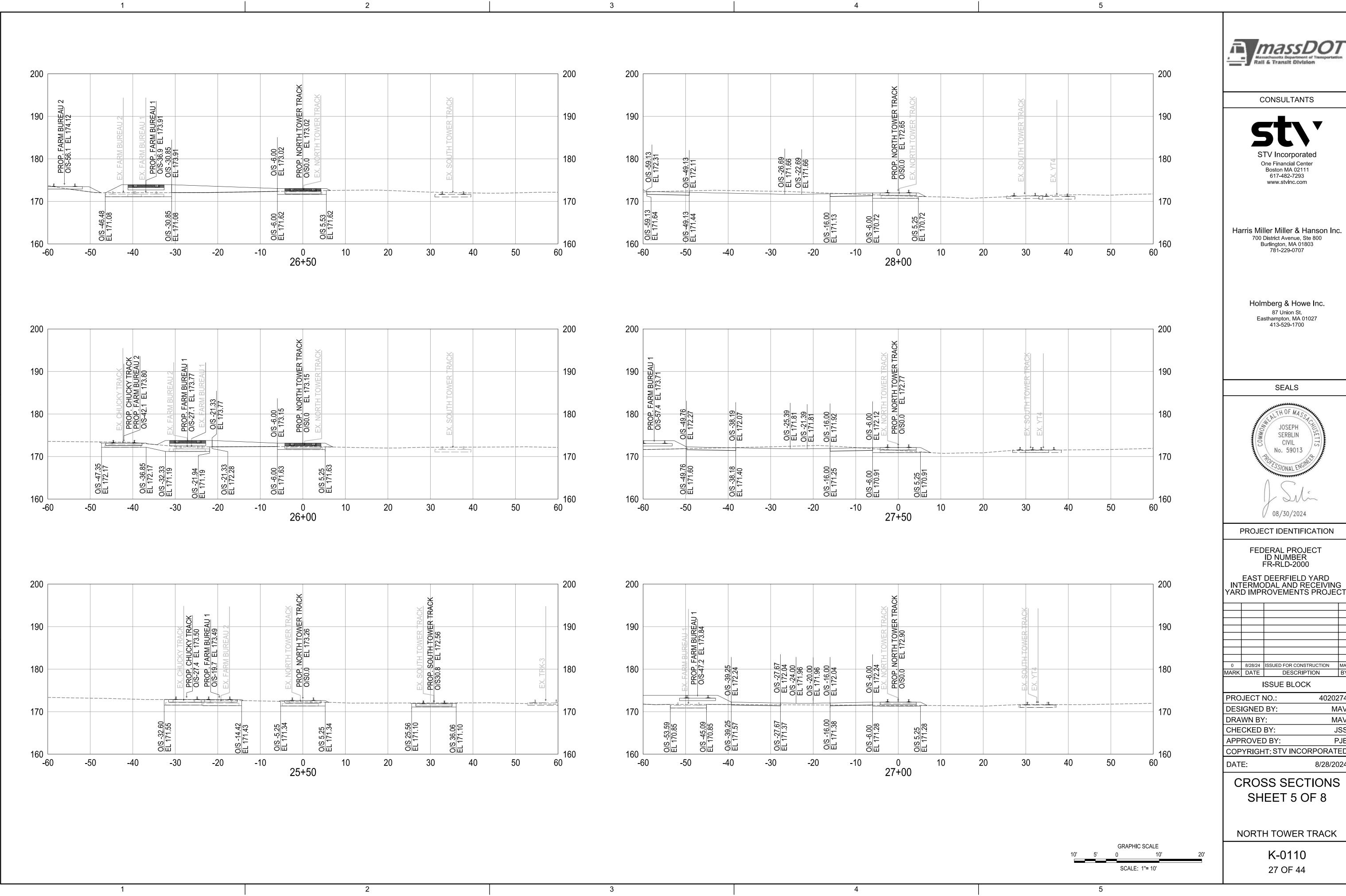
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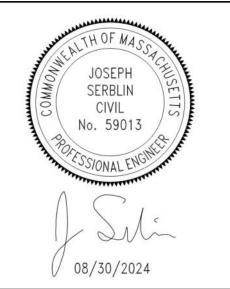




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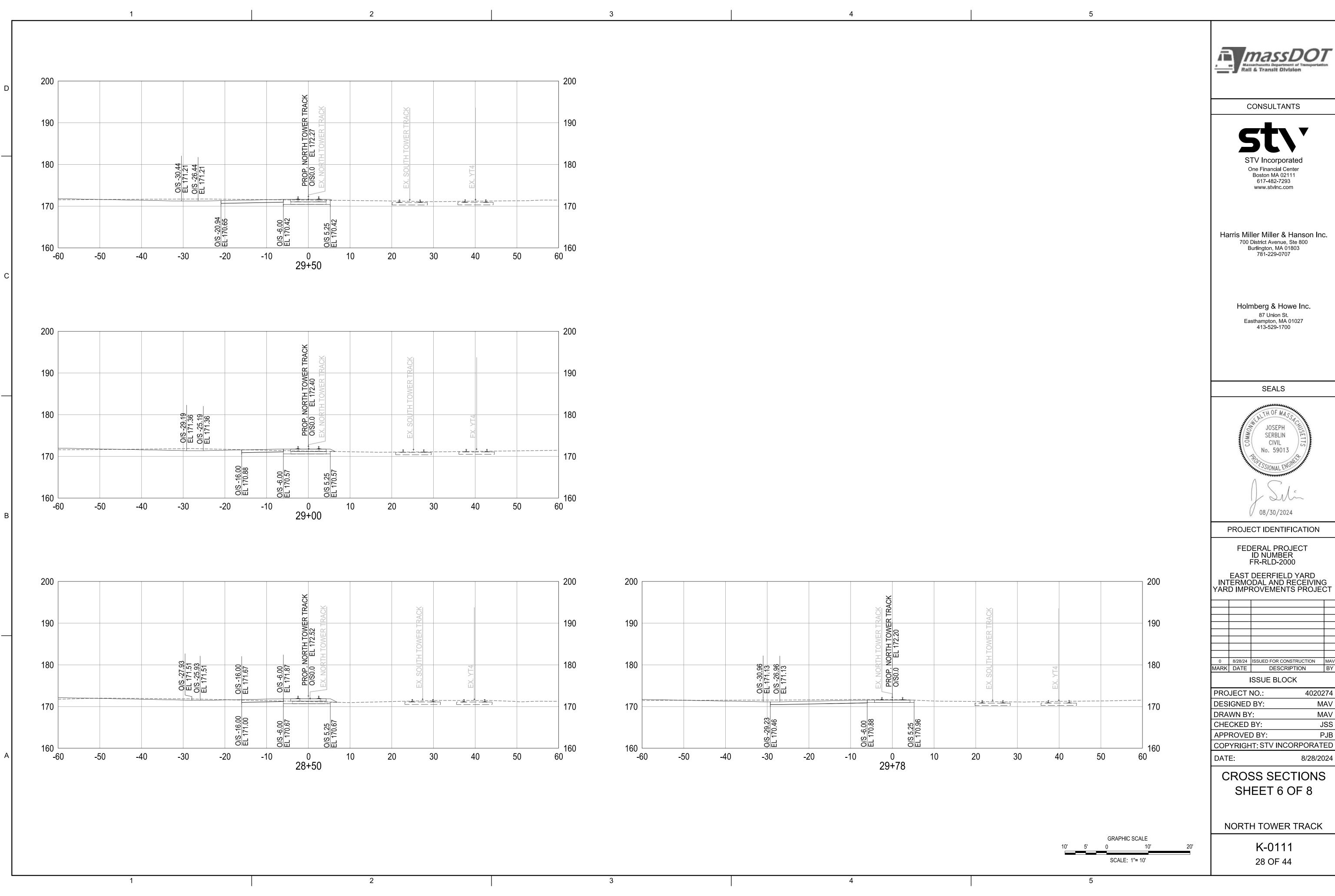




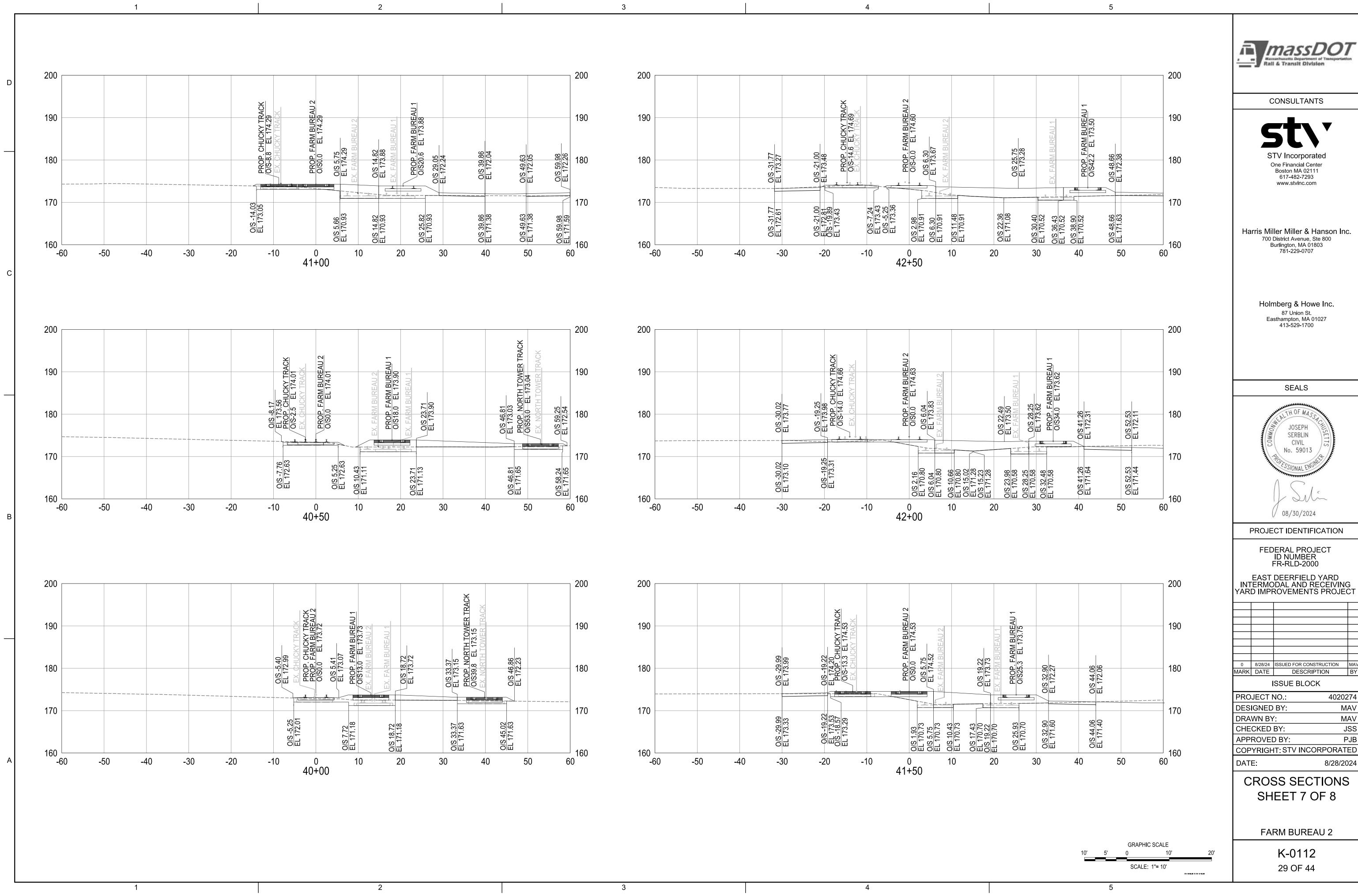


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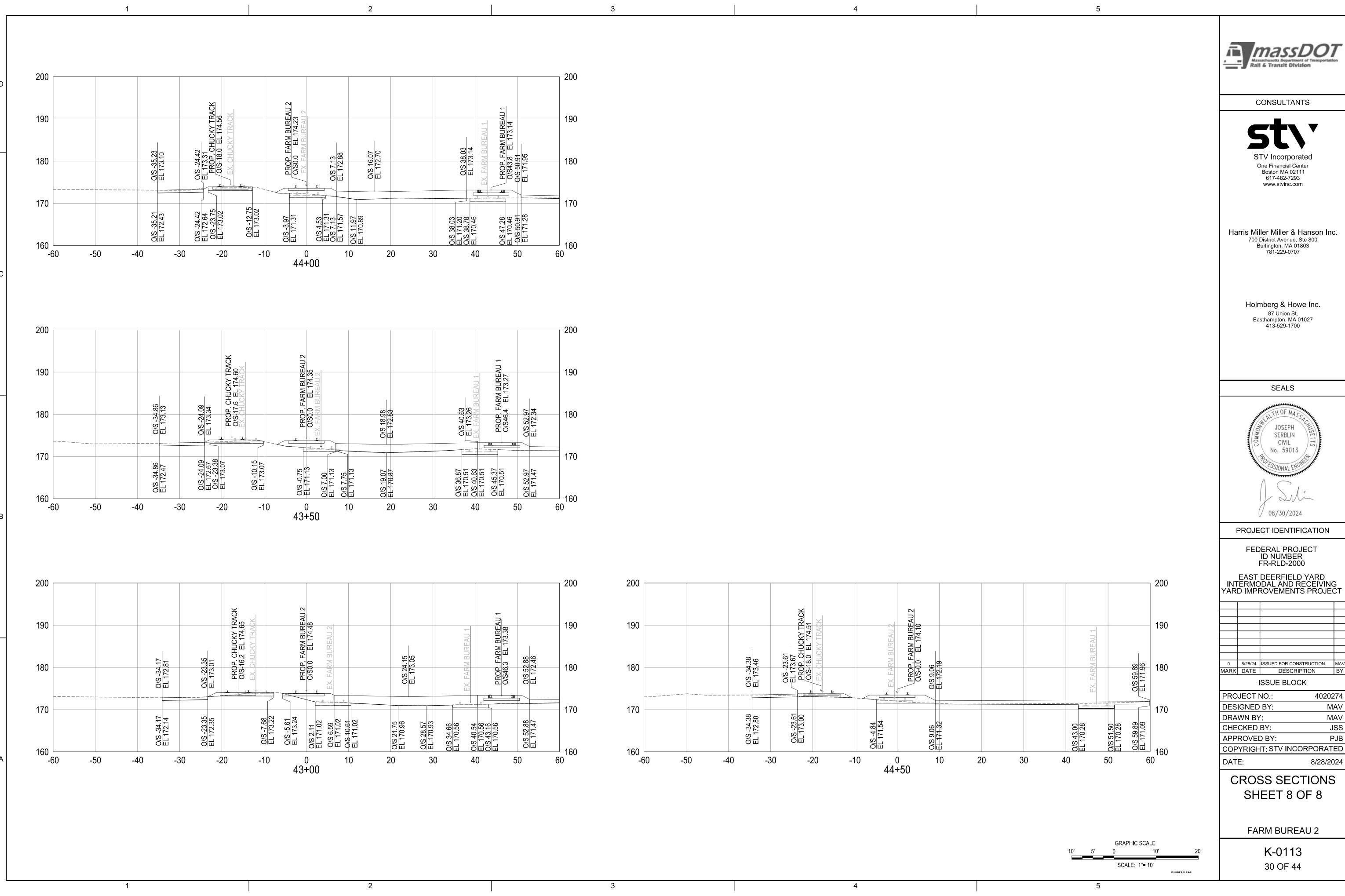
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Massachusetts Department of Transportation
Rall & Transit Division

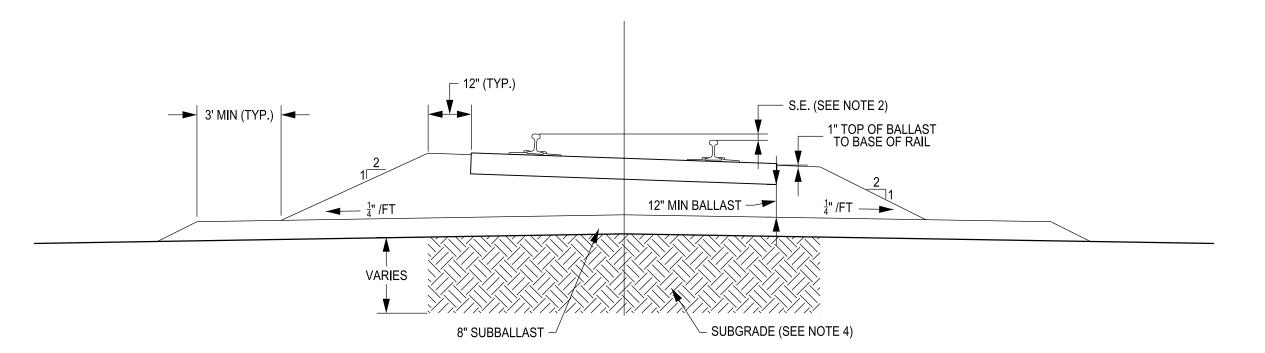
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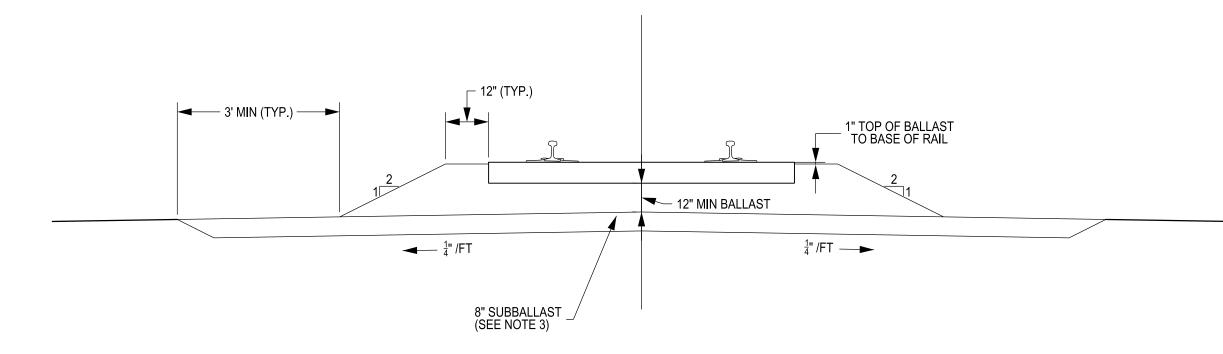


Massachusetts Department of Transportation
Rall & Transit Division

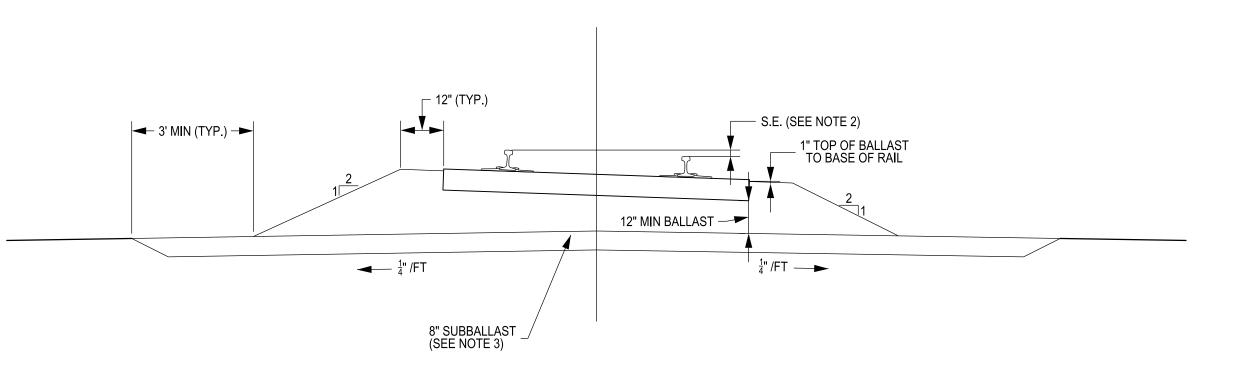
TYPICAL FULL DEPTH TRACK SECTION FOR SINGLE TRACK ON TANGENT WITH FILL NOT TO SCALE



TYPICAL FULL DEPTH TRACK SECTION FOR SINGLE TRACK ON CURVE WITH FILL NOT TO SCALE



TYPICAL FULL DEPTH TRACK SECTION FOR SINGLE TRACK ON TANGENT NOT TO SCALE



TYPICAL FULL DEPTH TRACK SECTION FOR SINGLE TRACK ON CURVE NOT TO SCALE

NOTES:

- TRACK LIFT AND ASSOCIATED IMPACTS VARIES BY SITE. CONTRACTOR SHALL INSTALL EROSION CONTROLS NECESSARY TO PERFORM THE WORK REQUIRED IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS AND REQUIREMENTS.
- 2. WHEREVER THE OUTSIDE TRACK HAS THE GREATER SUPERELEVATION, INCREASE THE TRACK CENTERS 3 $\frac{1}{2}$ " PER 1" OF SUPERELEVATION DIFFERENCE.
- IN NEW CONSTRUCTION, WHEN SUBGRADE CONDITIONS AS DETERMINED BY THE ENGINEER WARRANT THE USE OF GEOTEXTILE FABRIC, PLACE THE FABRIC BENEATH THE SUBBALLAST.
- WHEN THERE IS GREATER THAN 12" OF SUBGRADE BETWEEN THE TOP OF CULVERT SLAB AND BOTTOM OF TYPICAL 8" SUBBALLAST, FULLY COMPACTED IN SITU COMMON FILL SHALL BE ADDED BENEATH THE SUBBALLAST.



CONSULTANTS



Harris Miller Miller & Hanson Inc. 700 District Avenue, Ste 800 Burlington, MA 01803 781-229-0707

> Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027 413-529-1700

> > SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

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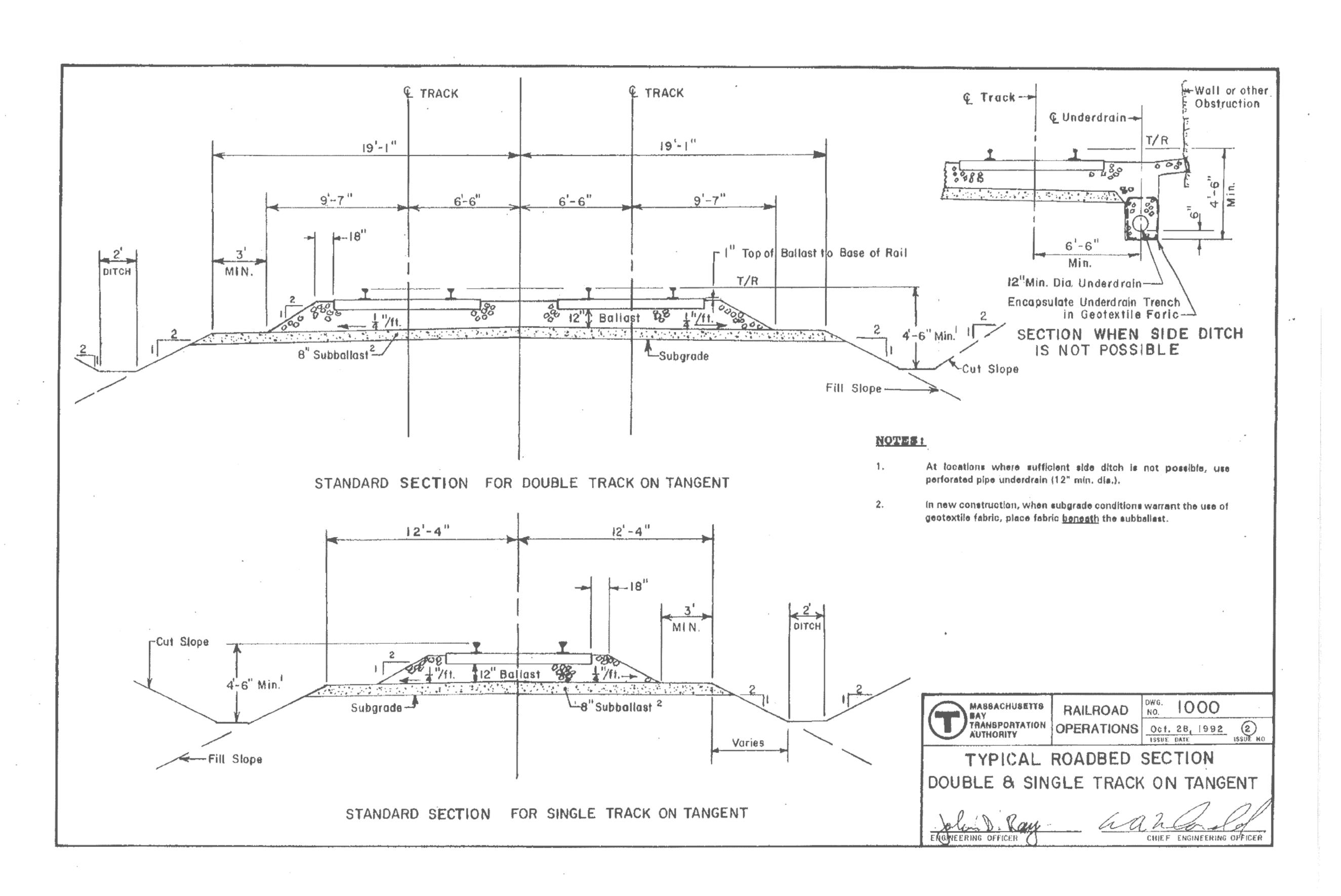
4020274 PROJECT NO.: **DESIGNED BY:** MAV DRAWN BY: MAV CHECKED BY: JSS APPROVED BY: PJB

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TYPICAL FULL DEPTH TRACK SECTIONS FOR SINGLE TRACK

> K-0200 31 OF 44



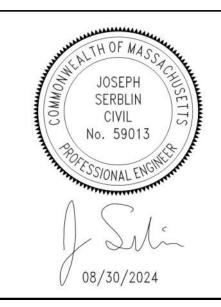




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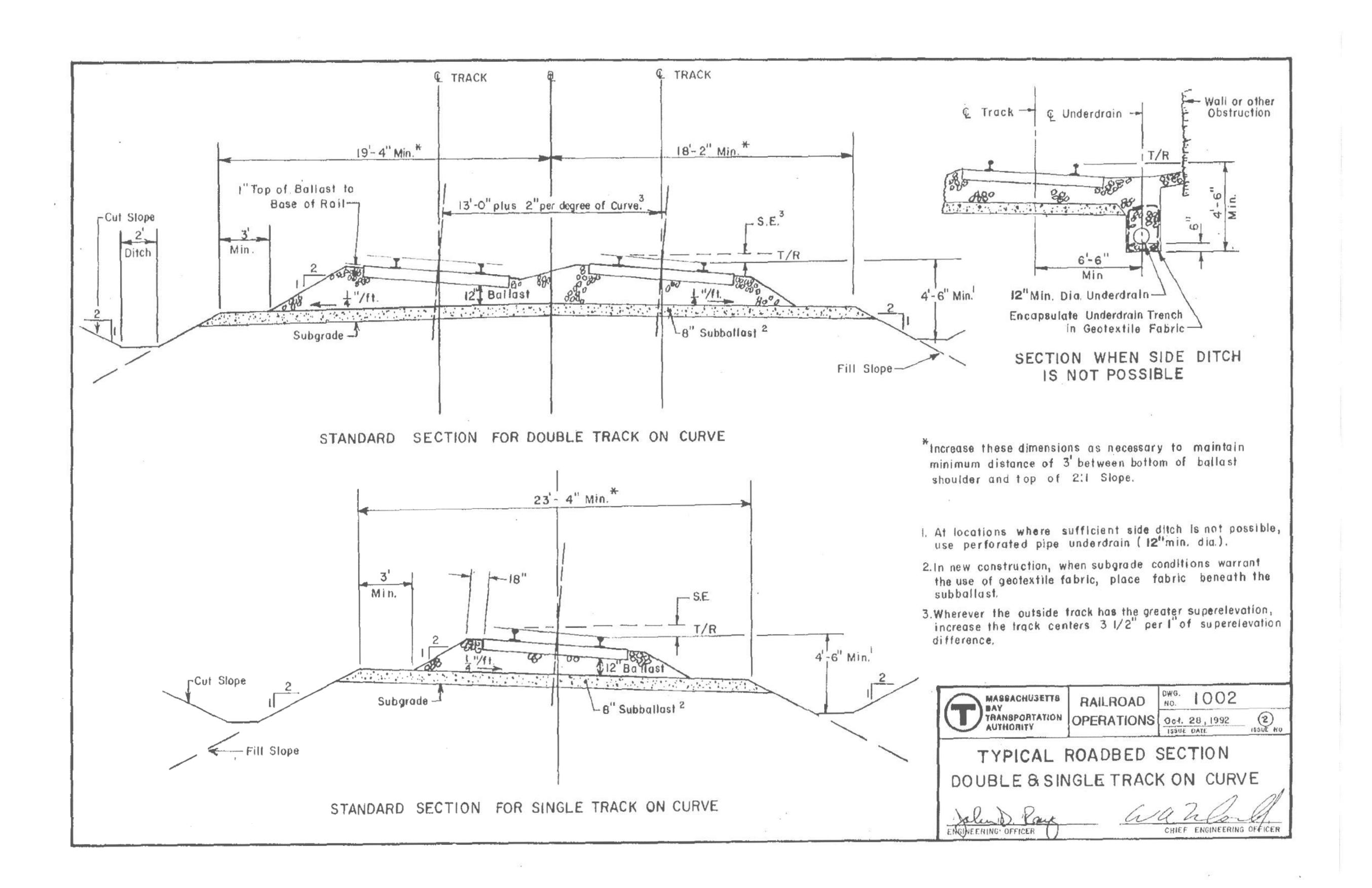
EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

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DESIGNED BY: MAV
DRAWN BY: MAV
CHECKED BY: JSS
APPROVED BY: PJB
COPYRIGHT: STV INCORPORATED
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MBTA DRAWING NO. 1000
TYPICAL ROADBED SECTION
DOUBLE & SINGLE TRACK
ON TANGENT

K-0201 32 OF 44







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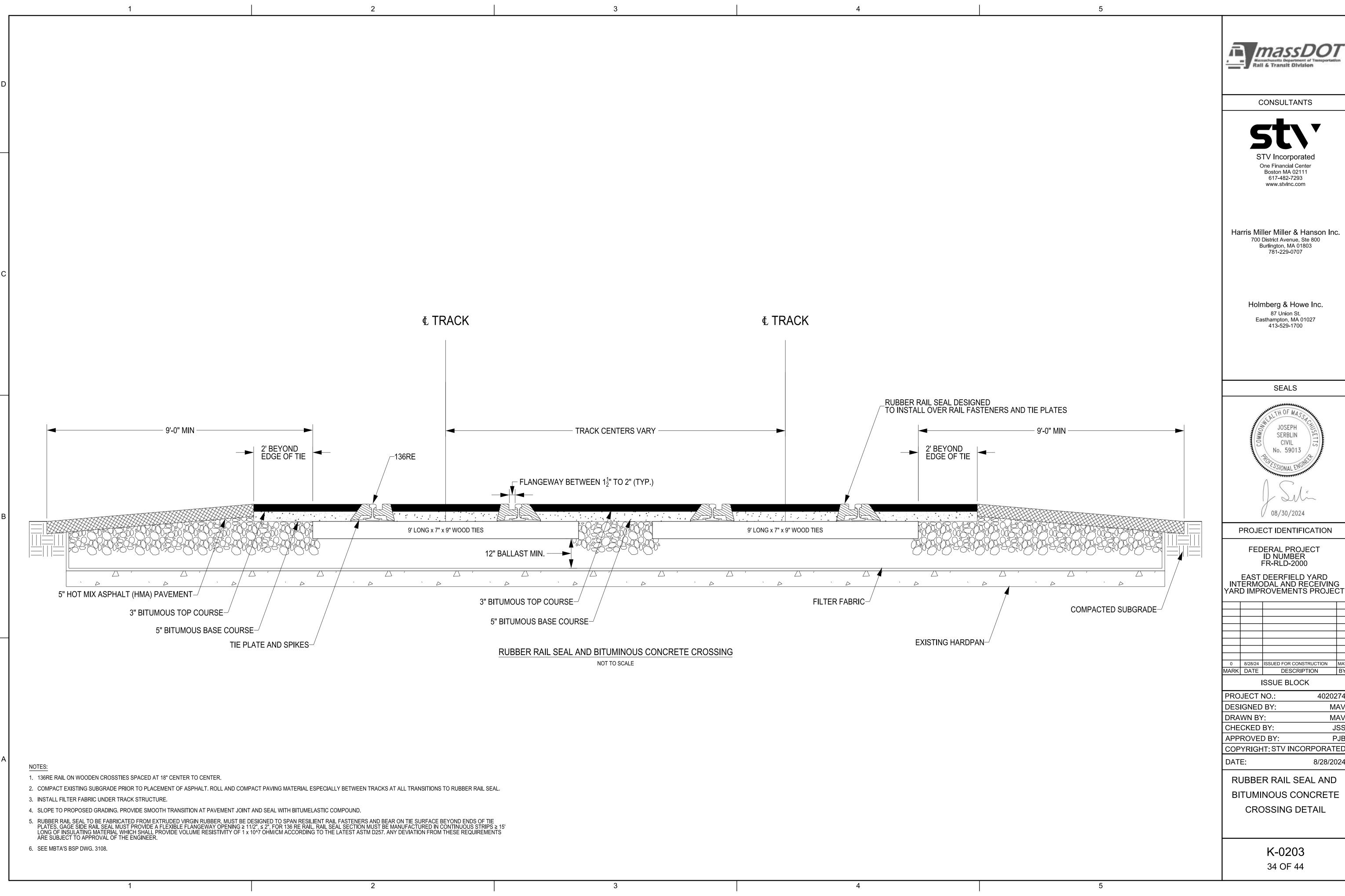
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APP	APPROVED BY: P				

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8/28/2024

MBTA DRAWING NO. 1002
TYPICAL ROADBED SECTION
DOUBLE & SINGLE TRACK
ON CURVE

K-0202 33 OF 44



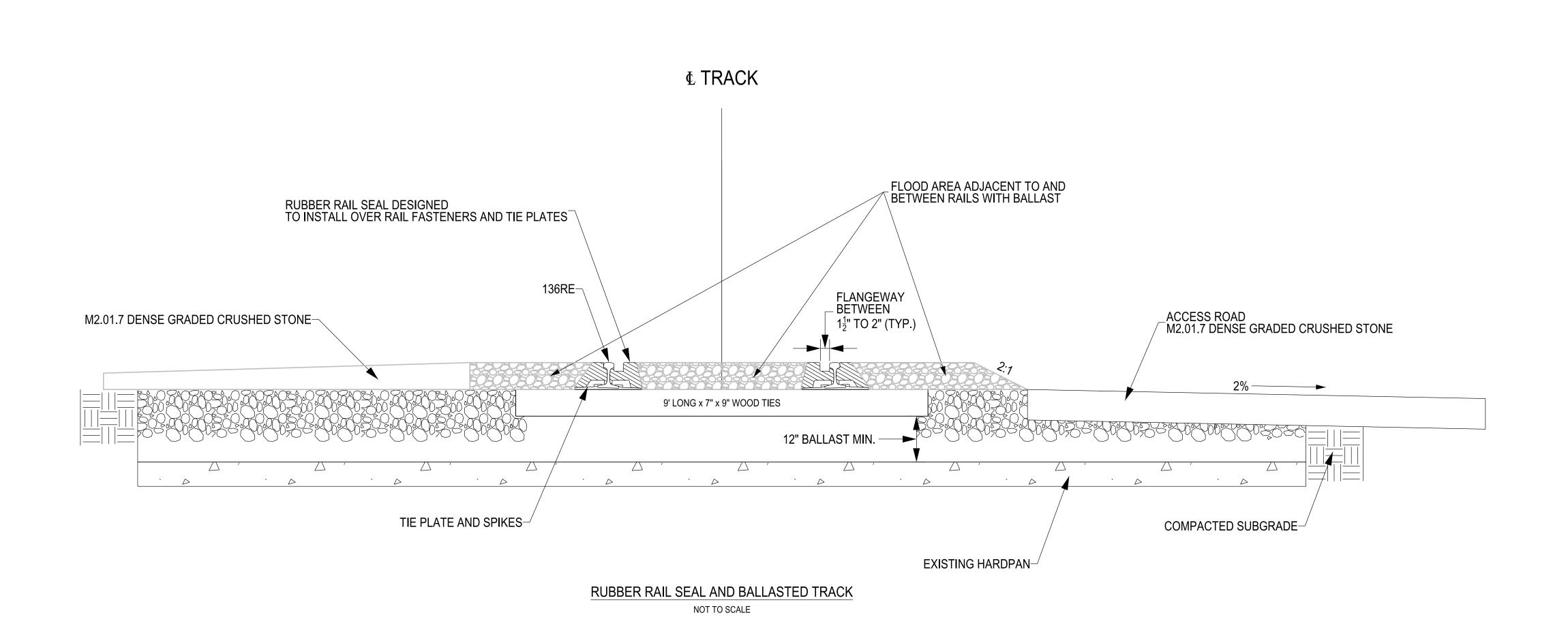


Harris Miller Miller & Hanson Inc.

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BITUMINOUS CONCRETE

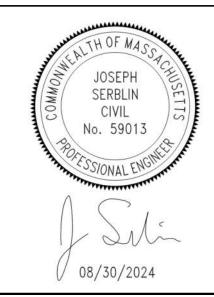




Harris Miller Miller & Hanson Inc. 700 District Avenue, Ste 800 Burlington, MA 01803 781-229-0707

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PROJECT IDENTIFICATION

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RUBBER RAIL SEAL AND BALLASTED TRACK

> K-0204 35 OF 44

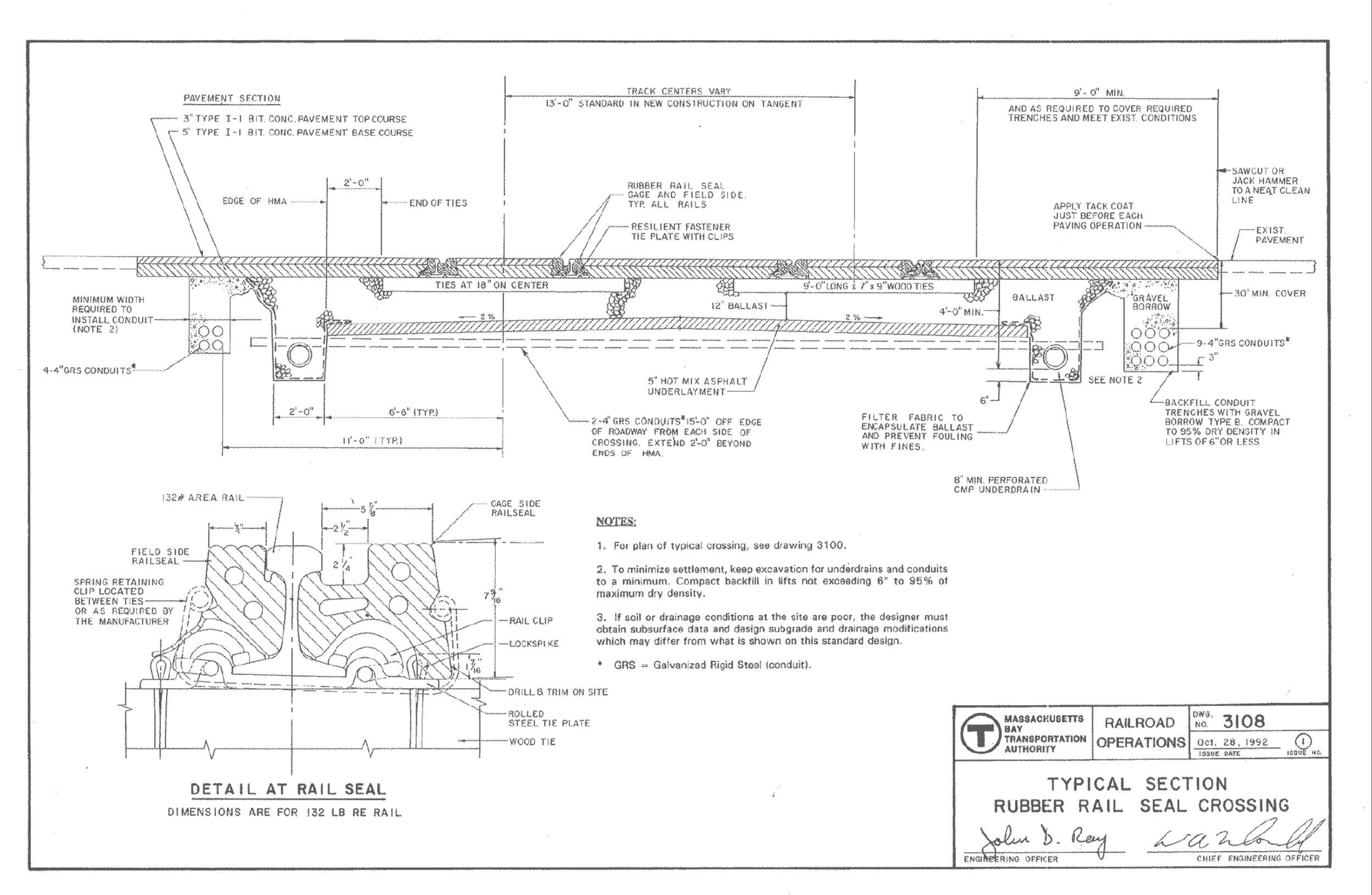
1. 136RE RAIL ON WOODEN CROSSTIES SPACED AT 18" CENTER TO CENTER.

2. COMPACT EXISTING SUBGRADE PRIOR TO PLACEMENT OF BALLAST. ROLL AND COMPACT BALLAST ESPECIALLY BETWEEN TRACKS AT ALL TRANSITIONS TO RUBBER RAIL SEAL.

3. SLOPE TO PROPOSED GRADING.

4. RUBBER RAIL SEAL TO BE FABRICATED FROM EXTRUDED VIRGIN RUBBER, MUST BE DESIGNED TO SPAN RESILIENT RAIL FASTENERS AND BEAR ON TIE SURFACE BEYOND ENDS OF TIE PLATES. GAGE SIDE RAIL SEAL MUST PROVIDE A FLEXIBLE FLANGEWAY OPENING ≥ 11/2", ≤ 2", FOR 136 RE RAIL. RAIL SEAL SECTION MUST BE MANUFACTURED IN CONTINUOUS STRIPS ≥ 15' LONG OF INSULATING MATERIAL WHICH SHALL PROVIDE VOLUME RESISTIVITY OF 1 x 10^7 OHM/CM ACCORDING TO THE LATEST ASTM D257. ANY DEVIATION FROM THESE REQUIREMENTS ARE SUBJECT TO APPROVAL OF THE ENGINEER.

6. SEE MBTA'S BSP DWG. 3108.



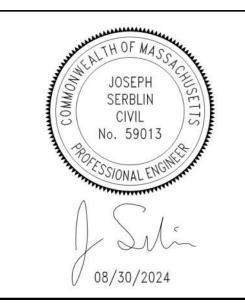




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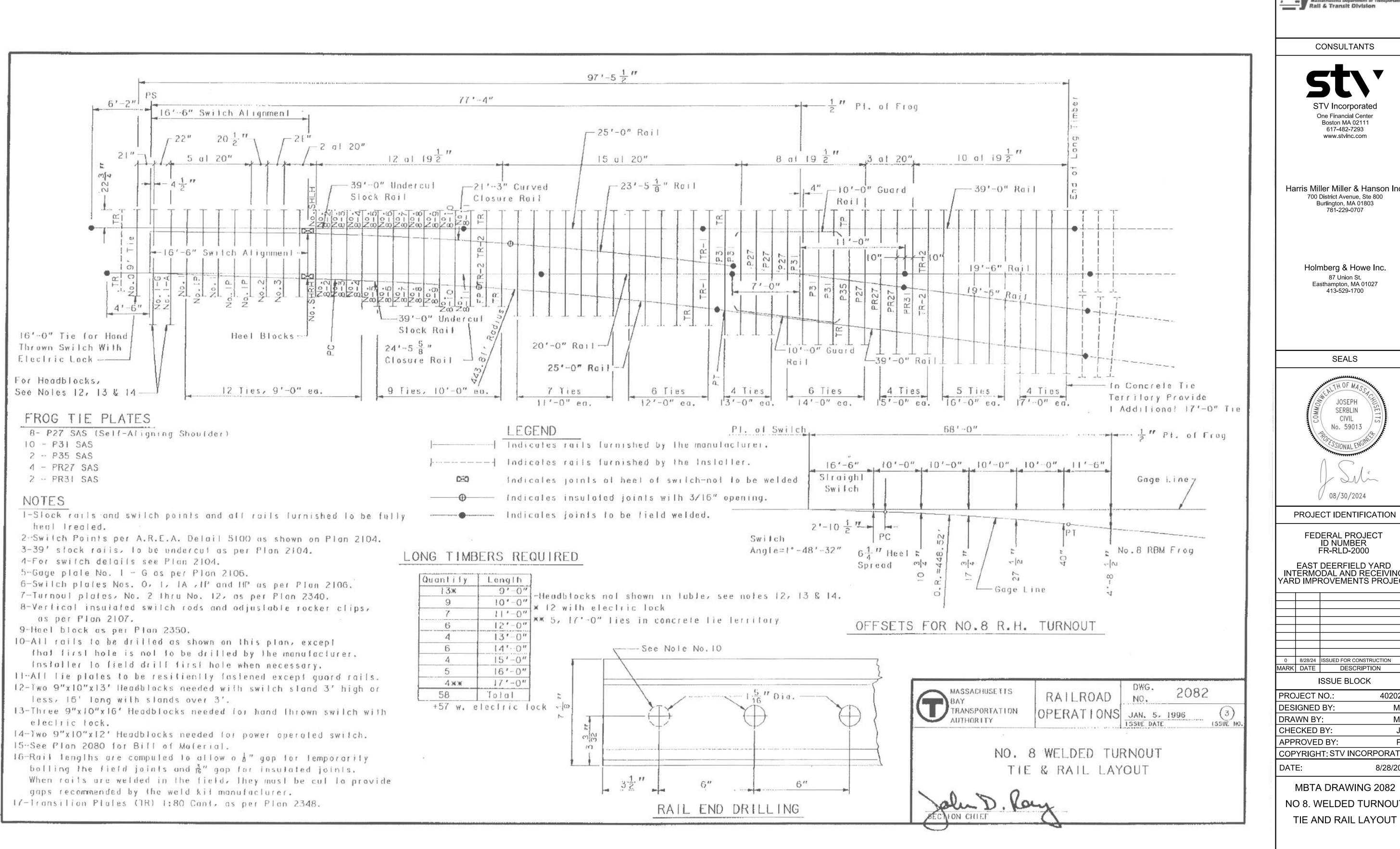
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CHECKED BY: J				
APPROVED BY: P				
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MBTA DRAWING 3108
TYPICAL SECTION
RUBBER RAIL SEAL
CROSSING

8/28/2024

K-0205 36 OF 44



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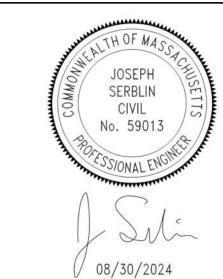
CONSULTANTS



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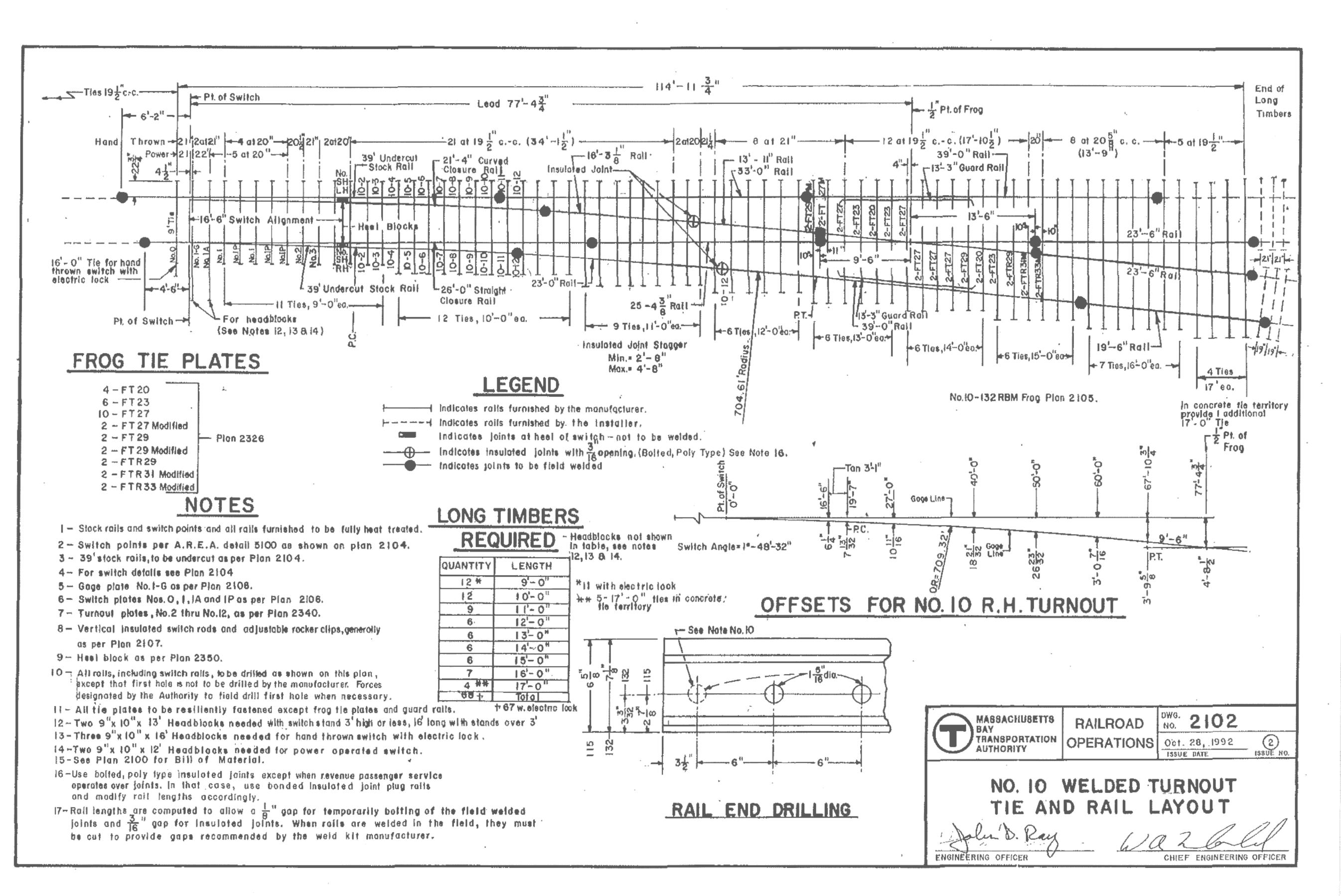
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NO 8. WELDED TURNOUT TIE AND RAIL LAYOUT

> K-0206 37 OF 44



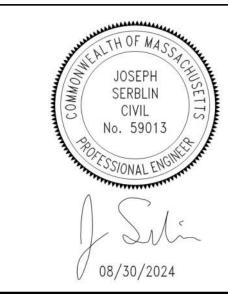




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PROJECT NO.: 4020274

DESIGNED BY: MAV

DRAWN BY: MAV

CHECKED BY: JSS

APPROVED BY: PJB

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MBTA DRAWING 2102

NO 10. WELDED TURNOUT
TIE AND RAIL LAYOUT

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19 - 3

Massachusetts Department of Transportation Rall & Transit Division

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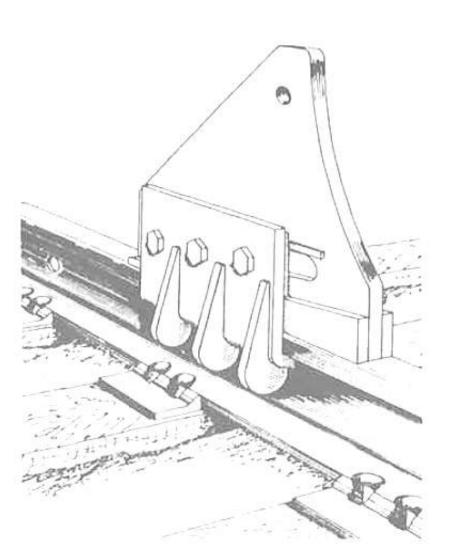
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PROJECT NO.: 4020274 **DESIGNED BY:** DRAWN BY: CHECKED BY: APPROVED BY: COPYRIGHT: STV INCORPORATED 8/28/2024

WESTERN-CULLEN HAYES MODEL 430F CAR STOP DETAIL

> K-0208 39 OF 44

Model 430F Car Stops



- Fast, clamp-on design
- Few Components
- No drilling of rails
- Ballast & ties not disturbed

Recommended especially for use on stub-end tracks where the base of the rail is not accessible (flush rail rail surrounded by concrete, asphalt and other kinds of pavement).

Simple application; just bolt the two clamp wedges lightly. Using a sledge hammer, drive the car stop block until it grips the rail-head securely - when firmly gripped - draw the four bolts tight. No further attention is necessary.

When used in pairs, be sure they are parallel so both wheels contact simultaneously.

Specifications

Height Above Rail: 16-5/8" Weight Per Pair: 350 lbs.

Size:

all rail from

One size fits

4-5/8" to 8" high

Material: All-welded Steel Finish: M/W Red Oxide

Wheel Contour: Speed:

33" - 36" dia. Up to 3 mph

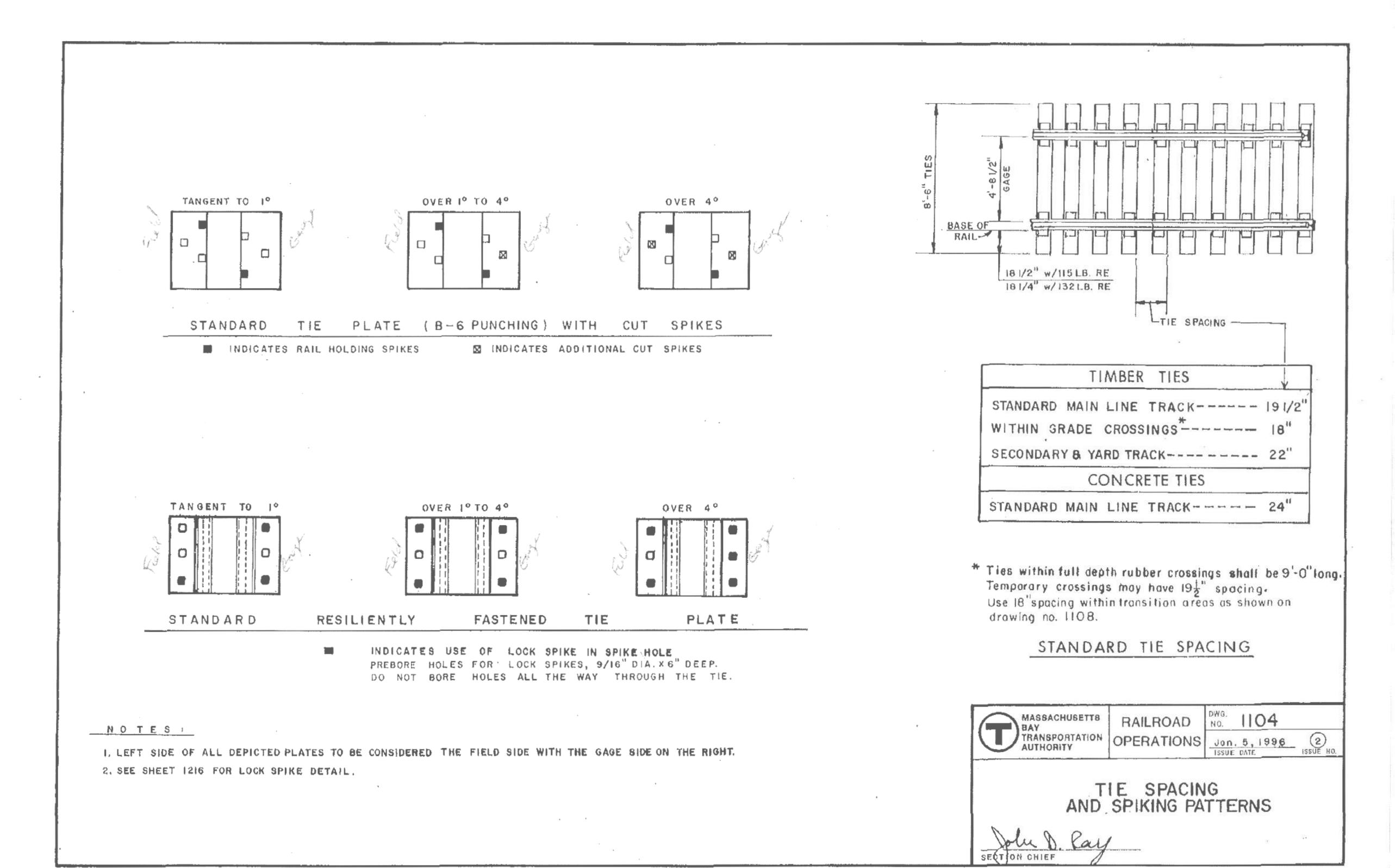
Wheel Stops are to be used for low speed stopping of rail cars. Speeds above 3 MPH are not recommended. Damage to wheels, bolsters and centerpins can occur at excessive speeds. Where speeds of 3 to 4-1/2 MPH are expected, we recommend cushion style SF or Spring Action Hayes Wheel Bumpers.

WESTERN-CULLEN-HAYES, INC.

2700 W. 36TH PLACE CHICAGO, IL. 60632 FAX (773) 254-1110 (773) 254-9600



120 N. 3rd Street, P.O. Box 756, Richmond, Indiana 47374 (765) 962-0526 FAX (765) 966-5374







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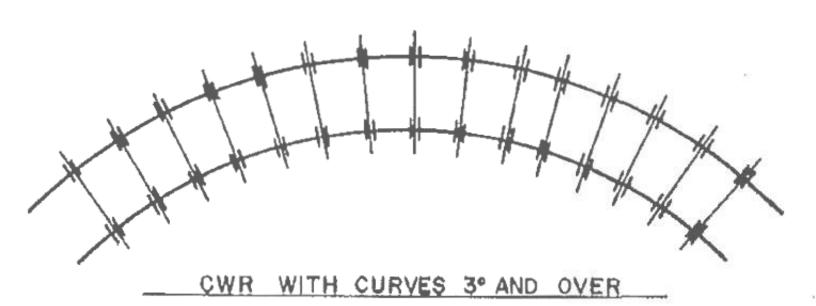
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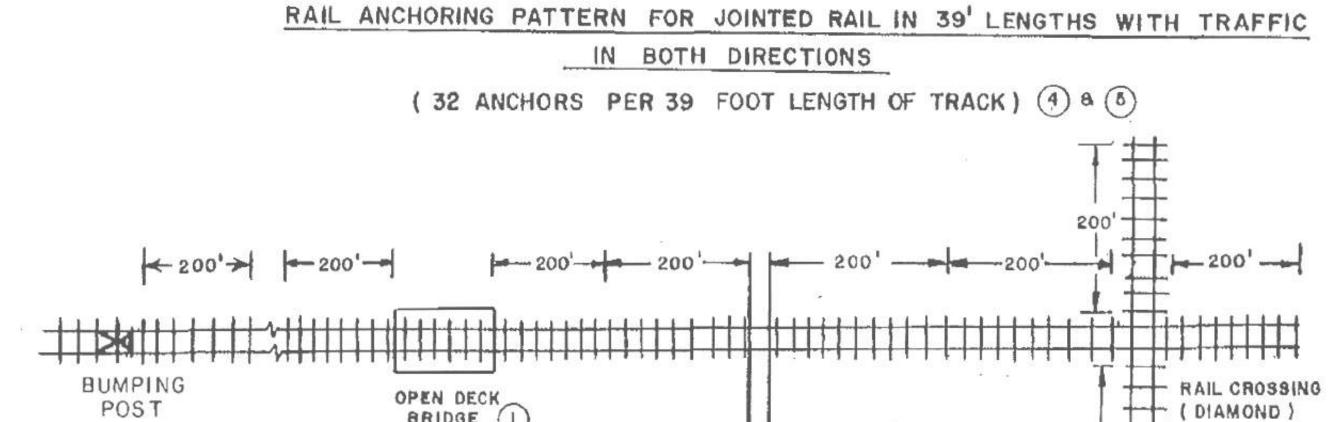
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MBTA DRAWING 1104
TIE SPACING
AND SPIKING PATTERNS

8/28/2024

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ALL TIES TO BE BOXED ANCHORED WITHIN DIMENSIONED AREAS

RAIL ANCHORING FOR OPEN DECK BRIDGES, GRADE AND RAIL CROSSINGS AND BUMPING POSTS WITH C.W.R. OR JOINTED RAIL

GRADE CROSSING (2)

Anchoring Patterns Shown are for Cut-Spike Fastened Track. Rail Fastened with Approved Resilient Fasteners Does Not Need Anchors As Shown on This Drawing.

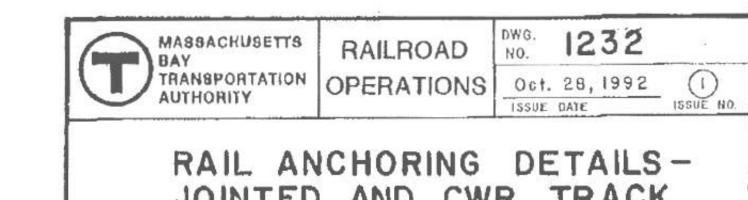
NOTES

- I. OPEN DECK OR THROUGH DECK BRIDGES ARE NOT TO BE ANCHORED ACROSS THE SPAN EXCEPT UNDER THE PROVISIONS OF THE MBTA'S MW-I OR WITH AUTHORIZATION OF THE CHIEF ENGINEER.
- 2. GRADE CROSSINGS ARE NOT TO BE ANCHORED WITHIN THE LIMITS OF THE PAVED OR RUBBER AREA.
- 3. THE DIAMOND FROGS ARE NOT TO BE ANCHORED.

BRIDGE (1

EXCEPT AS NOTED BELOW.

- 4. JOINTED RAIL ANCHORING PATTERN TO BE ADJUSTED FOR JOINT SPACING WHERE NECESSARY
- 5. JOINTED RAIL ANCHORING TO BE ADJUSTED FOR DIFFERING RAIL LENGTHS



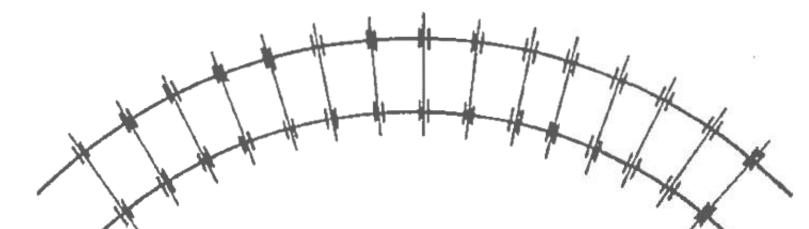
RAIL ANCHORING DETAILS-JOINTED AND CWR TRACK

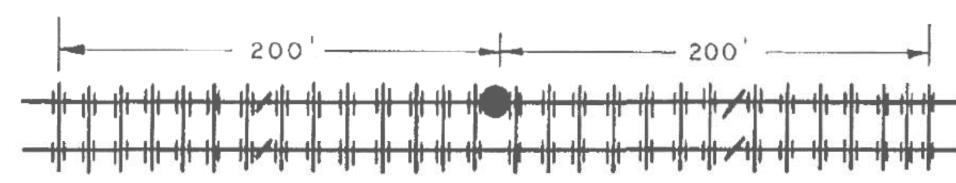
ENGREERING OFFICER

CHIEF ENGINEERING OFFICER

ISSUE DATE

(3)

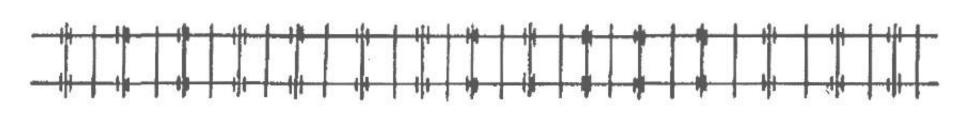




JOINTED END OF CWR STRING

INDICATES JOINT BARS

AT LOCATIONS WHERE CWR MEETS JOINTED RAIL, DO NOT APPLY ADDITIONAL ANCHORS TO JOINTED RAIL.



TYPICAL CONTINUOUS WELDED RAIL (CWR) STRING (TANGENT & CURVATURE UP TO 3°)

RAIL ANCHORING PATTERNS FOR CONTINUOUS WELDED RAIL

Massachusetts Department of Transportation
Rall & Transit Division

CONSULTANTS



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Holmberg & Howe Inc. 87 Union St. Easthampton, MA 01027 413-529-1700

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MBTA DRAWING 1232 RAIL ANCHORING DETAILS JOINTED AND CWR TRACK

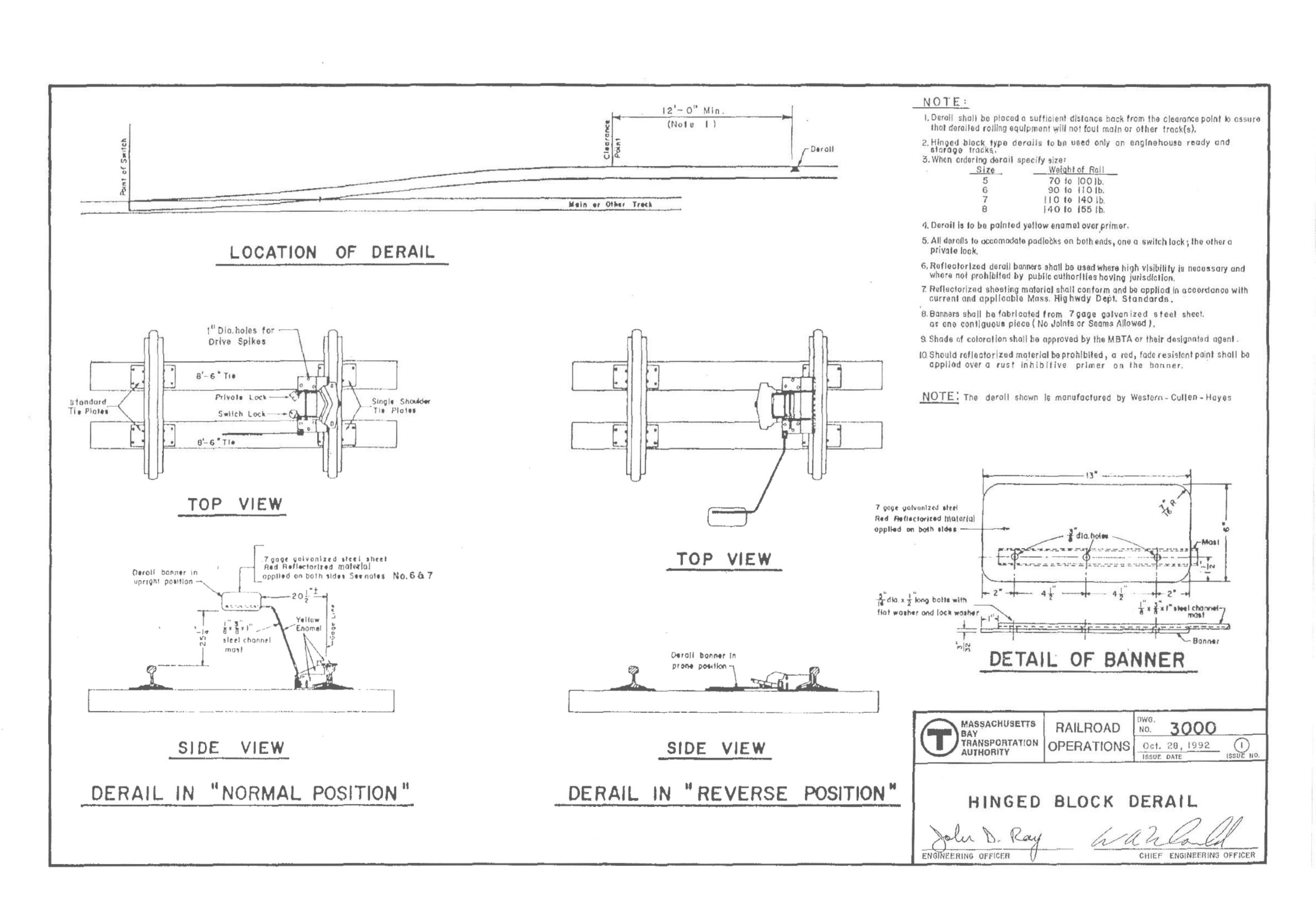
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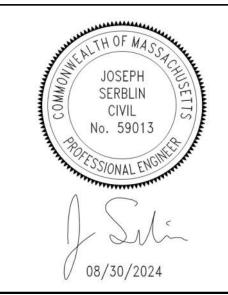
Harris Miller Miller & Hanson Inc.
700 District Avenue, Ste 800
Burlington, MA 01803
781-229-0707

617-482-7293

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87 Union St.
Easthampton, MA 01027
413-529-1700

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DRAWN BY: MAV

CHECKED BY: JSS

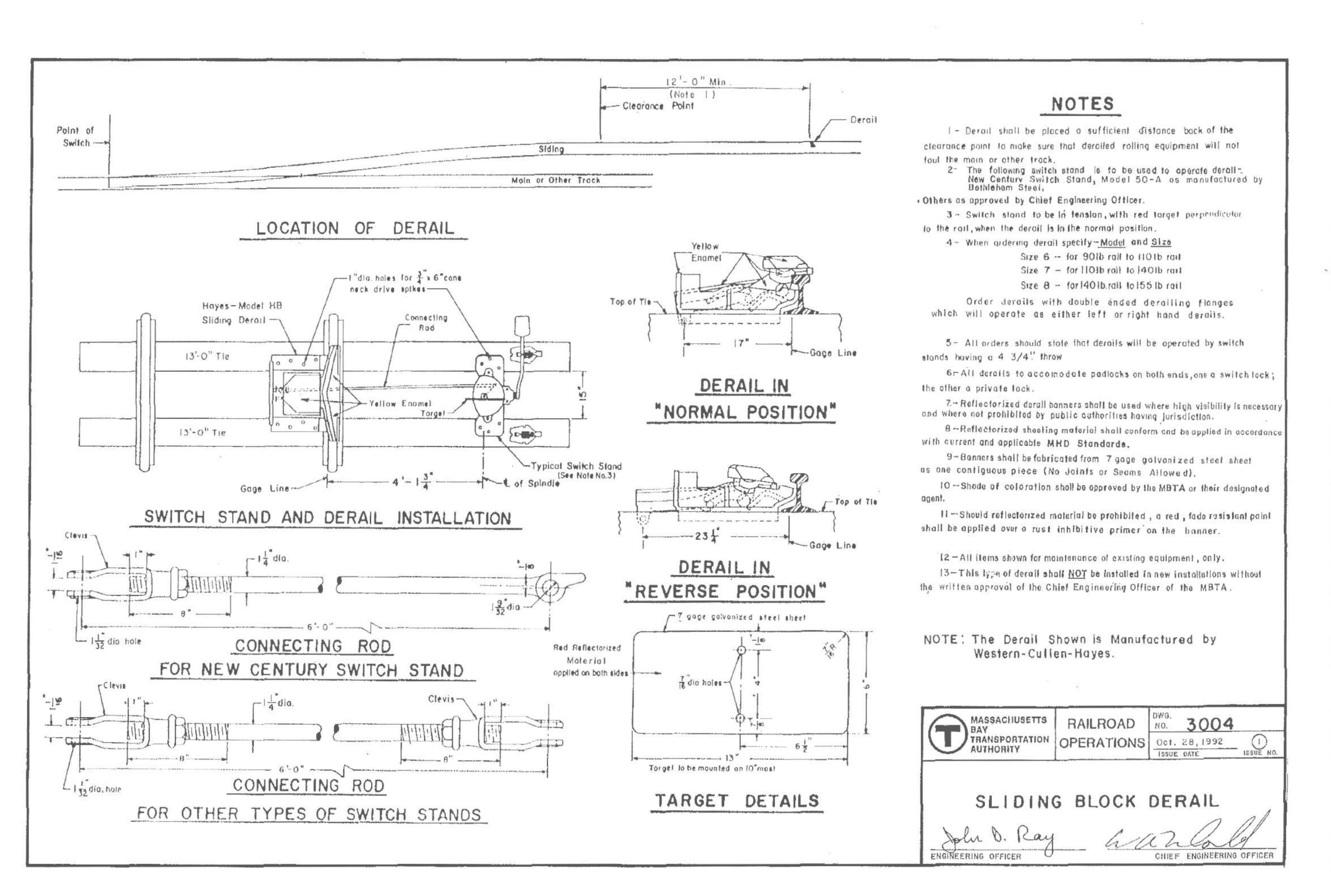
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DATE: 8/28/2024

MBTA DRAWING 3000 HINGED BLOCK DERAIL

K-0211 42 OF 44





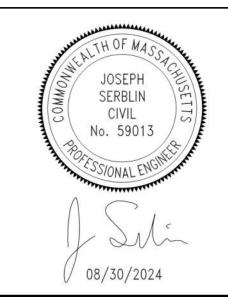


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EAST DEERFIELD YARD INTERMODAL AND RECEIVING YARD IMPROVEMENTS PROJECT

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8/28/2024

MBTA DRAWING 3004 SLIDING BLOCK DERAIL

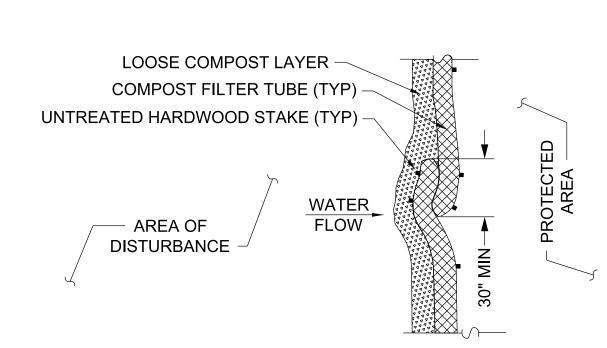
> K-0212 43 OF 44

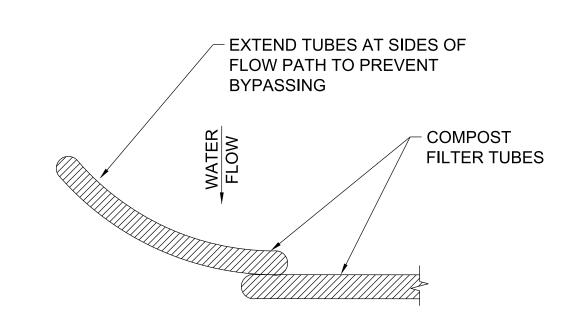
LOOSE COMPOST MATERIAL LAYER (2 INCH DEEP X 12 INCH WIDE) PLACED ON UPHILL/FLOW SIDE OF TUBES TO FILL SPACE BETWEEN SOIL SURFACE AND TUBES.

COMPOST FILTER TUBE TAMPED IN PLACE TO ENSURE GOOD CONTACT WITH EXISTING GRADE (MIN TAMPED HEIGHT OF 9.5 INCHES)

UNTREATED HARDWOOD STAKE (2 INCH X 2 INCH X 3 FEET) SPACED AS REQUIRED TO SECURE TUBES IN PLACE (MAX SPACING OF 5 FEET)

UNDISTURBED SUBGRADE





COMPOST FILTER TUBE SECTION VIEW N.T.S.

COMPOST FILTER TUBE
OVERLAP DETAIL
N.T.S.

COMPOST FILTER TUBE
END DETAIL
N.T.S.

COMPOST FILTER TUBE NOTES:

- 1. COMPOST FILTER TUBE CASING MATERIAL SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL.
- 2. COMPOST FILTER TUBES SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER WITH AND EFFECTIVE HEIGHT OF AT LEAST 9.5 INCHES ONCE TAMPED.
- 3. COMPOST FILTER TUBES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S INSTRUCTIONS.
- 4. INSTALL COMPOST FILTER TUBES ALONG CONTOURS AND PERPENDICULAR TO STORMWATER RUNOFF FLOW.
- 7. CONFIGURE COMPOST FILTER TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUNOFF.
- 4. SLOPES LONGER THAN 50 FEET OR WITH A SLOPE RATIO OF 3H:1V OR STEEPER MAY REQUIRE LARGER TUBE DIAMETERS OR ADDITIONAL COURSING TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
- 5. COMPOST FILTER TUBES SHALL NOT BE INSTALLED IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
- 6. COMPOST FILTER TUBES SHALL BE TAMPED IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.
- 7. ON HARD SURFACES WHERE IT IS NOT POSSIBLE TO USE HARDWOOD STAKES TO HOLD COMPOST FILTER TUBES IN PLACE, HEAVY CONCRETE BLOCKS OR CINDER BLOCKS MAY BE USED. BLOCKS SHALL BE SPACED AT A MAXIMUM OF 5 FT OR AS REQUIRED TO HOLD COMPOST FILTER TUBES IN PLACE.
- 8. ADDITIONAL COMPOST FILTER TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
- . THE CONTRACTOR SHALL INSPECT COMPOST FILTER TUBES REGULARLY AND WITHIN 12 HOURS AFTER ANY RAIN EVENT.
- 10. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER TUBES IN A FUNCTIONAL CONDITION AT ALL TIMES. THE CONTRACTOR SHALL REPAIR OR REPLACE COMPOST FILTER TUBES AS REQUIRED TO ENSURE THEY ARE FUNCTIONING PROPERLY.
- 11. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT ACCUMULATED AGAINST THE COMPOST FILTER TUBES AS DIRECTED BY THE ENGINEER, OR WHEN ACCUMULATED SEDIMENT DEPTH EXCEEDS 1/3 OF THE EFFECTIVE HEIGHT OF THE COMPOST FILTER TUBES.



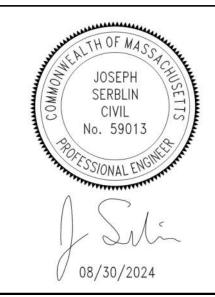
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SEALS



PROJECT IDENTIFICATION

FEDERAL PROJECT ID NUMBER FR-RLD-2000

EAST DEERFIELD YARD
INTERMODAL AND RECEIVING
YARD IMPROVEMENTS PROJECT

0	8/28/24	ISSUED FOR CONSTRUCTION	MAV	
MARK	DATE	DESCRIPTION	BY	
ISSUE BLOCK				

PROJECT NO.: 4020274

DESIGNED BY: MAV

DRAWN BY: MAV

CHECKED BY: JSS

APPROVED BY: PJB

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DATE: 8/28/2024

COMPOST FILTER
TUBE DETAIL

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